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Current Fishery Statistics No. 8000

Fisheries of the United States, 1979

April 1980

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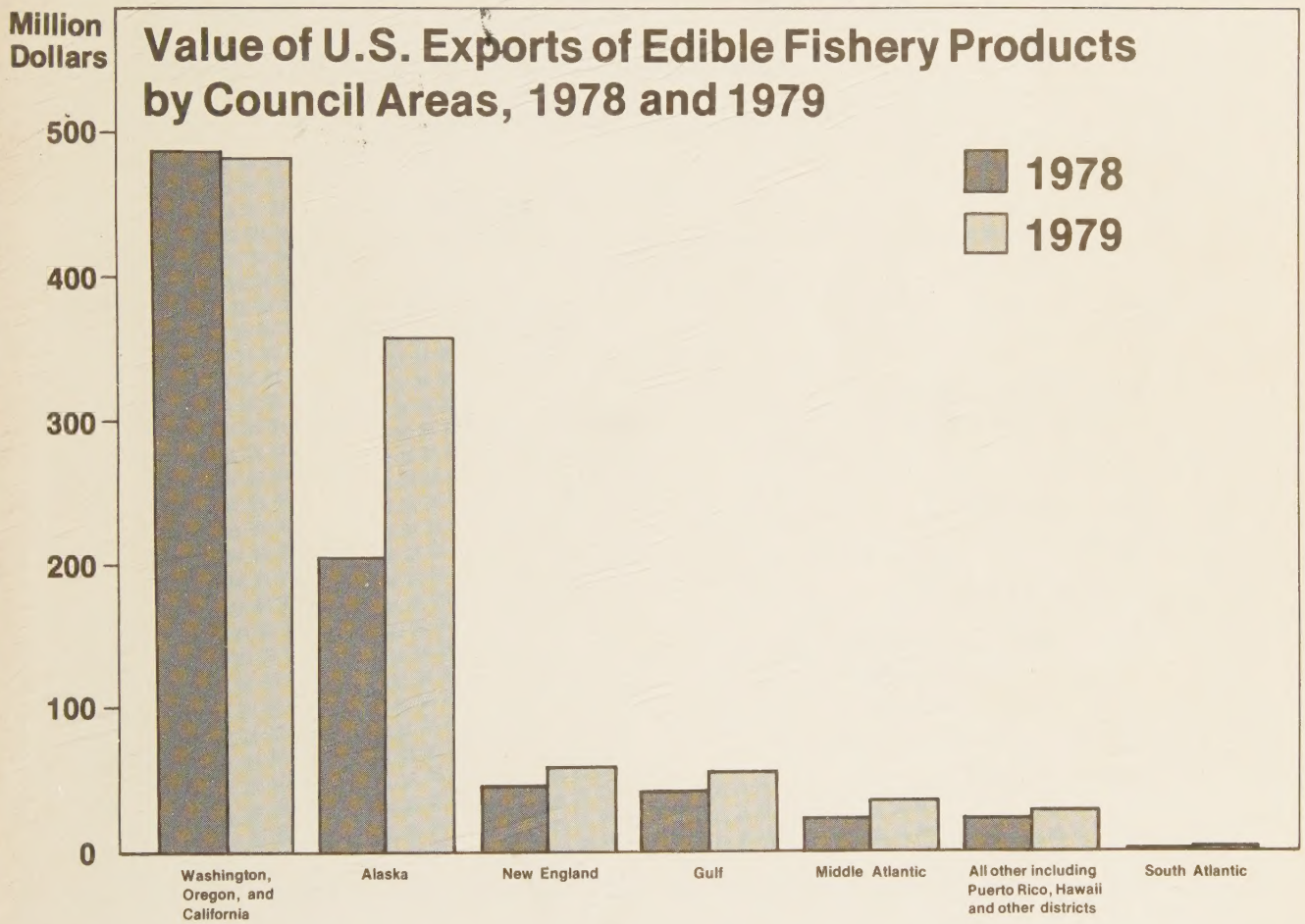

U.S. DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration

National Marine Fisheries Service

The graph on the cover represents U.S. exports of edible fishery products from Customs districts in each Regional Fishery Management Council, as reported by the U.S. Bureau of the Census. A substantial share of exports attributed to Washington, Oregon, and California in the graph orginated in Alaska.

Area	1978	1979
	Million dollars	
Washington, Oregon, and California.	$488.3	$482.2
Alaska	205.7	357.0
New England.	46.7	58.3
Gulf	42.4	55.7
Middle Atlantic.	23.2	35.2
All other including Puerto Rico, Hawaii, and other Customs districts	23.3	28.0
South Atlantic	2.1	3.4
Total	831.7	1,019.8

For listing of the Councils see back of book under FCMA.

CURRENT FISHERY STATISTICS NO. 8000

Fisheries of the United States, 1979

PREPARED BY
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WASHINGTON, D. C.
APRIL 1980

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U.S. DEPARTMENT OF COMMERCE
Philip M. Klutznick, Secretary

National Oceanic and Atmospheric Administration
Richard A. Frank, Administrator

National Marine Fisheries Service
Terry L. Leitzell, Assistant Administrator for Fisheries

PREFACE

FISHERIES OF THE UNITED STATES, 1979

This is a preliminary report for 1979 on commercial and marine recreational fisheries of the United States and foreign catches in the U.S. fishery conservation zone (FCZ). This annual report provides timely answers to frequently asked questions for the previous year. All data in this publication are consistent with the provisions of the Federal Reports Act of 1942.

MARINE RECREATIONAL FISHING

A section of this publication briefly describes the 1978-79 survey of the Nation's marine recreational fishery. The final report on this survey will be available later in 1980. Also discussed are the national salt-water angling surveys of 1960, 1965, and 1970; the 1974 Northeastern Regional Survey; and the 1975 Southeastern Regional Survey.

SOURCES OF DATA

Information in this report came from many sources. Regional offices of the National Marine Fisheries Service (NMFS), in cooperation with various States, compiled and collected data on U.S. commercial landings and processed fishery products. NMFS Regional Offices compiled data on the foreign catch from reports by designated foreign officials. The NMFS Washington, D.C., office of Resource Statistics Division tabulated and prepared the data for publication. Sources of other data appearing in this publication are: U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Coast Guard, U.S. Customs Service, U.S. Department of Defense, U.S. Department of the Interior, U.S. General Services Administration, Food and Agriculture Organization (FAO) of the United Nations, and the countries fishing in the U.S. FCZ.

Citations of notices in the Federal Register (FR) are abbreviated with the volume number followed by the first page of the notice, as follows: 42 FR 12386. Distribution of the Federal Register is made only by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

PRELIMINARY AND FINAL DATA

Data on U.S. commercial landings are preliminary for 1979. All data on foreign catches are preliminary. Data on U.S. cold storage holdings, employment, prices, and production of processed products are preliminary for 1979. Final data will be published in annual summaries (see section on publications, p. 109) and later in Fishery Statistics of the United States.

UNITS OF QUANTITY AND VALUE

As in past issues of this report, the units of quantity and value are defined as follows: U.S. landings and foreign catch are shown in round weight (mollusk-shells excluded) unless otherwise noted; quantities shown for U.S. imports and exports are in product weight, as reported by the U.S. Bureau of the Census, unless otherwise noted; the value of the U.S. domestic catch is exvessel (see Glossary); the value for U.S. imports is generally the market value in the foreign (exporting) country and, therefore, excludes U.S. import duties, freight charges from the foreign country to the United States, and insurance; the value for exports is generally the value at the U.S. port of export, based on the selling price, including inland freight, insurance, and other charges.

SUGGESTIONS

Because the Resource Statistics Division wishes to provide the kinds of data sought by users of fishery statistics, the Division welcomes any comments or suggestions that will improve this report.

Address all comments or questions to:

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ACKNOWLEDGMENT

The Resource Statistics Division of NMFS takes this opportunity to thank all those States, members of industry, and foreign nations who provided the data that made this report possible.

Program leaders of the field offices were: Francis Riley and Robert H. Hall, New England, Middle Atlantic, Chesapeake, Great Lakes, and northern Mississippi River States; Richard Raulerson and Kimrey D. Newlin, South Atlantic, Gulf, and southern Mississippi River States; James R. Bybee, California; John K. Bishop, Oregon and Washington; Doyle E. Gates, Hawaii; and Janet Smoker, Alaska.

Members of the Washington, D.C., Resource Statistics Division who helped with this publication were: Joy Aso, Thelma I. Bell, Susan Carlson, Wenona J. Crews, Gloria M. Cuffey, Margret L. Dancy, David G. Deuel, Donald S. FitzGibbon, Deborah Hogans, Willie Mae Holloway, Mary Hutchinson, Barbara K. O'Bannon, Renay Phillips, Joseph Pileggi, Edith Poetzschke, Anne D. Rinn, Leslie A. Robinson, Robert E. Rosette, Richard L. Schween, B. G. Thompson, Fred Wall, Mayme O. Whitmore, Mike Williams, and Lelia M. Wise.

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REVIEW

U.S. LANDINGS. Commercial landings (edible and industrial) by U.S. fishermen at ports in the 50 States were a record 6.3 billion pounds valued at a record $2.2 billion in 1979, up 4 percent in quantity and 20 percent in value compared with 1978, the previous record year. These increases, in large part, reflect sharply higher salmon landings and record prices for most species.

Commercial landings by U.S. fishermen at ports outside the 50 States were an additional 157.6 million pounds valued at $79.9 million. Most of these landings were tuna landed at canneries in the Commonwealth of Puerto Rico.

Edible fish and shellfish landings in the 50 States were a record 3.3 million pounds in 1979, up 4 percent compared with 1978. Increased landings of a number of species, particularly salmon, more than offset a decline in landings of tuna and shrimp.

Landings for reduction and other industrial purposes by U.S. fishermen in the 50 States were a record 2.9 million pounds in 1979, 3 percent over 1978. The increase is attributable to larger landings of menhaden, the dominant industrial fish, and increased landings of anchovies.

FOREIGN CATCH IN U.S. FCZ. The foreign catch of fish (excluding tunas) and shellfish in the U.S. Fishery Conservation Zone (FCZ) was 1,641,000 metric tons (3.6 billion pounds) in 1979, 6 percent below 1978, and 29 percent below the average for the 5 preceding years. As in other years, the FCZ off Alaska supplied by far the largest share of the foreign catch, 89 percent; Washington, Oregon, and California, 7 percent; North Atlantic, 4 percent; and Hawaii and the Pacific islands, less than 1 percent.

Alaska pollock comprised 65 percent of the foreign catch; Pacific flounders, 12 percent; Pacific hake (whiting), 7 percent; and other fish and shellfish, the remainder.

Despite a 6-percent decline in catch from 1978, Japan continued to be the leading nation fishing in the U.S. FCZ with a catch of 1.1 million metric tons in 1979. The USSR catch of 282,000 metric tons in 1979 was down 24 percent compared with 1978. Catches by vessels of the Republic of Korea, the third most important catching nation, were 127,000 metric tons, 26 percent above 1978.

U.S. VS. FOREIGN CATCH IN U.S. FCZ. The combined catch by U.S. and foreign vessels in the area 3 to 200 nautical miles from U.S. shores, known as the FCZ, was 2.4 million metric tons in 1979, up 2 percent compared with 1978. The rise in the U.S. catch more than offset a decline in the foreign catch, and the U.S. share rose to 33 percent of the total, up from 27 percent in 1978. Because these data on U.S. landings in some years include large quantities of anchovies and menhaden, which are low-value fish used for industrial purposes, the increase in U.S. landings of food fish is hidden. If catches of anchovies and menhaden are removed from U.S. catches in the FCZ, U.S. catches would show a steady rise in recent years; 522,000 metric tons (1,151 million pounds) in 1976, 560,000 tons (1,235 million pounds) in 1977, 611,000 tons (1,347 million pounds) in 1978, and 629,000 tons (1,387 million pounds) in 1979.

MARINE RECREATIONAL CATCH. The most recent data available are for 1970. In that year, U.S. marine recreational fishermen caught an estimated 1.6 billion pounds of marine (saltwater) finfish, or about the same as the average amount of edible finfish landed by commercial fishermen in recent years.

WORLD LANDINGS. In 1978, the most recent year for which data are available, world commercial fishery landings were a record 72.4 million metric tons, almost 2 percent more than the revised 1977 total of 71.2 million metric tons. Japan was the leading nation with 15 percent of the total; the USSR, second with 12 percent; China, third with 6 percent; and the United States, fourth with 5 percent.

PRICES. In 1979, U.S. exvessel prices (prices received by fishermen and vessel owners) rose for most species. The index (1967=100) for edible fish and shellfish reached 432.5 in 1979, up 22 percent compared with 1978. Among the few exceptions to this trend were prices for flounders, pink salmon, hard blue crabs, and American lobsters, all of which declined slightly. The index for industrial fish was 309.3 in 1979, 5 percent above 1978.

PROCESSED PRODUCTS. The 1979 value of domestic production of edible and inedible processed fishery products was $4.7 billion, 5 percent above 1978. The value of edible products increased to $4.3 billion, 6 percent above 1978. All categories of edible products increased in value except canned fishery products. The value of industrial products of $415 million in 1979 was about the same as in 1978.

FOREIGN TRADE. U.S. imports of edible fishery products were 2.4 billion pounds (product weight) valued at a record $2.7 billion in 1979, down 2 percent in quantity, but up 18 percent in value. U.S. imports of nonedible (industrial) products were $1.1 billion in 1979, 39 percent above 1978.

The United States exported a record 553.6 million pounds valued at $1.0 billion of edible fishey products in 1979, up 23 percent in both quantity and value from 1978. Exports in 1979 of nonedible products were $62.2 million, 16 percent below 1978.

SUPPLY. THE U.S. supply of edible fishery products (domestic landings plus imports, round weight equivalent) was a record 8.3 billion pounds in 1979, 3 percent above 1978. The increase was caused by record U.S. landings and near-record imports of edible products. The supply of industrial fishery products was 3.6 billion pounds in 1979, 6 percent above 1978. Record domestic landings of industrial products and increased industrial imports were responsible for gain.

PER CAPITA CONSUMPTION. U.S. consumption of fishery products was 13.3 pounds of edible meat per person in 1979, down from the record 13.6 pounds in 1978.

REVIEW

RECORDS ESTABLISHED

U.S. COMMERCIAL LANDINGS

Volume and value of U.S. commercial landings -- 6.3 billion pounds and $2,233.7 million.... (previous high, 1978 -- 6.0 billion pounds and $1,854.5 million).

Flounders -- 209.3 million pounds....(previous high, 1978 -- 180.7 million pounds).

Rockfishes -- 68.0 million pounds....(previous high, 1978 -- 59.4 million pounds).

Sablefish -- 48.4 million pounds....(previous high, 1978 -- 29.2 million pounds).

Sharks -- 22.6 million pounds....(previous high, 1978 -- 9.7 million pounds).

Crabs -- 489.2 million pounds....(previous high, 1978 -- 449.1 million pounds).

Crab, snow (tanner) -- 131.4 million pounds....(previous high, 1978 -- 129.5 million pounds).

Lobsters, American -- 37.2 million pounds....(previous high, 1978 -- 34.4 million pounds).

Scallops -- 34.1 million pounds....(previous high, 1978 -- 33.3 million pounds).

Scallop, sea -- 31.5 million pounds....(previous high, 1978 -- 31.0 million pounds).

Squid -- 48.7 million pounds....(previous high, 1978 - 41.1 million pounds).

U.S. PRODUCTION OF PROCESSED FISHERY PRODUCTS

Fish portions -- 390.4 million pounds....(previous high, 1978 -- 389.4 million pounds).

Fish meal -- 373,800 short tons....(previous high, 1978 -- 362,900 short tons).

Menhaden meal -- 280,800 short tons....(previous high, 1978 -- 276,500 short tons).

U.S. IMPORTS

Value -- $3,811.3 million....(previous high, 1978 -- $3,076.6 million).

Edible fishery products -- $2,668.1 million....(previous high, 1978 -- $2,253.1 million).

Regular and minced blocks -- 408.2 million pounds....(previous high, 1978 -- 406.3 million).

U.S. EXPORTS

Value -- $1,082.4 million....(previous high, 1978 -- $905.5 million).

Edible fishery products -- 553.6 million pounds valued at $1,020.2 million....(previous high, 1978 -- 448.3 million pounds valued at $831.7 million).

Snow crab frozen -- 43.0 million pounds....(previous high, 1978 -- 31.7 million).

U.S. SUPPLY (DOMESTIC PRODUCTION PLUS IMPORTS)

Edible commercial fishery products -- 8,251 million pounds....(previous high, 1978 -- 8,135 million pounds).

Regular and minced blocks -- 413.0 million pounds....(previous high, 1978 -- 408.2 million pounds).

Groundfish fillets and steaks -- 327.7 million pounds....(previous high, 1978 -- 298.7 million pounds).

American Lobsters -- 68.3 million pounds....(previous high, 1971 -- 68.2 million pounds).

REVIEW

OTHER IMPORTANT FACTS

Menhaden landings in 1979 of 2,604 million pounds (1,181 metric tons) made up 42 percent of the commercial fishery landings in the United States.

Salmon was the second most important species in both quantity and value.

Crabs were the third most important in both quantity and value.

Tuna was the fourth most important in both quantity and value.

Shrimp was the fifth most important in quantity, but first in value.

Tuna landings by U.S. craft at ports outside the United States amounted to 143.7 million pounds, mostly landed at Puerto Rican ports. The only other species landed at ports outside the United States was shrimp — 13.9 million pounds at Central and South American ports.

Cameron, Louisiana, was the leading U.S. port in quantity of commercial fishery landings. The second was San Pedro, California, followed by Pascagoula-Moss Point, Mississippi; Empire-Venice, Louisiana; and Dulac-Chauvin, Louisiana. Menhaden was the principal species landed at these ports, except at San Pedro, where tuna was the principal species.

Dutch Harbor, Alaska, was the leading U.S. port in terms of value, followed by San Pedro, California; Kodiak, Alaska; and New Bedford, Massachusetts.

Louisiana led all States in volume of landings with 1,529.1 million pounds, followed by Alaska with 898.5 million pounds; California with 728.4 million pounds; Virginia with 572.2 million pounds; and North Carolina with 390.5 million pounds.

Alaska led all States in value with $597.0 million, followed by California with $227.5 million; Louisiana with $198.5 million; Massachusetts with $175.5 million; and Texas with $160.2 million.

REVIEW

IMPORTANT SPECIES

ALASKA POLLOCK AND OTHER ALASKA TRAWL FISH. Landings by U.S. fishermen of Alaska trawl fish (atka mackerel, cod, flounders, and rockfishes) were 9.5 million pounds valued at $1.4 million in 1979, up 73 percent in quantity and 87 percent in value compared with 1978. Landings of Alaska pollock were 4.5 million pounds, up 75 percent; cod landings were 3.4 million pounds, up 125 percent; flounder landings, 881,000 pounds, down 29 percent; and rockfishes 653,000 pounds, up 308 percent. Atka mackerel landings were 18,000 pounds in 1979. This marks the first time that this species has been separately reported in U.S. landings data.

The foreign catch of trawl fish in the Alaska FCZ was 1.4 million metric tons (3.1 billion pounds) in 1979, 7 percent less than in 1978. About 90 percent of this total was caught in the Bering Sea and Aleutian Islands area; the remainder from the Gulf of Alaska. Catches of all species, except rockfishes, declined. The catch of Alaska pollock, which accounted for 74 percent of the total, was 1.0 million metric tons in 1979, 3 percent less than in 1978. The foreign catch of flounders was 199,000 metric tons in 1979, 20 percent less than 1978; the cod catch of 54,000 tons was 7 percent less; the atka mackerel catch of 34,000 tons was 22 percent less; and the catch of "other" groundfish of 69,000 tons was 11 percent less in 1979 than in 1978. The combined catch of Pacific ocean perch and other rockfishes of 18,000 tons, however, was 4 percent greater in 1979 than in 1978.

WASHINGTON, OREGON, AND CALIFORNIA TRAWL CATCH. Landings and joint venture catches by U.S. fishermen of trawl fish in Washington, Oregon, and California were 182.8 million pounds valued at $37.4 million in 1979, up 27 percent in quantity and 29 percent in value compared with 1978. These trawl fish are Pacific cod, flounders, Pacific hake (whiting), Pacific ocean perch, Alaska pollock, and rockfishes. Landings or catch of all species increased sharply except for Pacific cod and Alaska pollock. Rockfishes and Pacific ocean perch accounted for 41 percent of the total quantity in 1979; flounders, 37 percent; Pacific hake (whiting), 17 percent; Pacific cod, 5 percent; and Alaska pollock the remainder.

Foreign trawl catches off Washington, Oregon, and California were 117,000 metric tons (259 million pounds) in 1979, 19 percent more than in 1978. This was the only major foreign fishery reporting an increase in 1979. The fishery is under a PMP that only allows a directed fishery for Pacific hake (whiting). The catch of Pacific hake (whiting) comprised 98 percent of the foreign catch in both 1978 and 1979.

NORTH ATLANTIC TRAWL FISH. U.S. fishermen landed 412.8 million pounds (187,000 metric tons) valued at $137.9 million of North Atlantic groundfish in 1979, up 4 percent in quantity and 16 percent in value compared with 1978. The trawl fish included are: butterfish, cod, cusk, flounders, haddock, red hake, white hake, Atlantic ocean perch, pollock, and whiting (silver hake). In terms of value, flounders were the leading species, accounting for almost half the total value; cod contributed about a fifth of the value; and haddock, 13 percent.

The U.S. fishery for cod, haddock, and yellowtail flounder has been under an FMP since March 1977. Because of the noticeable improvement in the stocks of these species in recent years, fishing quotas under the FMP were enlarged in 1979. U.S. landings of cod from all areas were 99.4 million pounds in 1979, 15 percent above 1978; landings of haddock were 41.9 million pounds in 1979, 6 percent over 1978; and yellowtail flounder landings were 35.2 million pounds in 1979, 40 percent above 1978.

Canadian catches of trawl fish and scallops in the U.S. FCZ were 25,174 metric tons (55.5 million pounds) in 1979, 35 percent under 1978. The Canadian catch of scallops was 9,200 metric tons (20.3 million pounds), 24 percent below 1978; the catch of cod was 6,400 metric tons (14.1 million pounds), 33 percent below 1978; the catch of haddock was 5,400 metric tons (12.0 million pounds) in 1979, 49 percent under 1978; and the catch of pollock was 3,000 metric tons (6.7 million pounds), 36 percent below 1978.

The Canadian catch was down sharply, primarily because Canadian fishermen were only allowed to fish in the "disputed zone" on Georges Bank in 1979. In 1978, Canadian fishermen caught a large amount of fish and shellfish in other parts of the FCZ before June 4, 1978. Beginning on that date, Canadian fishermen were excluded from the FCZ except in the "disputed zone."

Trawl catches by other foreign countries were 9,100 metric tons (20.0 million pounds) in 1979, down sharply from 123,000 tons in 1977 and 21,500 tons in 1978. The 1979 catch was much less than the final allocations, which totaled almost 130,000 metric tons for 1979. The catch of each species was down substantially. The foreign catch of whiting (silver hake), the leading species, was 4,900 metric tons in 1979, 65 percent below 1978; the red hake catch was 978 metric tons, down 54 percent; and the incidental catch of butterfish and other species also was down sharply. Foreign fishermen reported that abundance was low, and the fishing was poor in the Atlantic FCZ areas where they were allowed to fish.

REVIEW

IMPORTANT SPECIES

ANCHOVIES. U.S. landings of anchovies in 1979 were 117.4 million pounds, more than three times the 1978 catch, but still well below the average of 207.4 million pounds for the preceding 5 years. In 1979, 103.7 million pounds or 88 percent of the anchovies were reduced to meal, oil, and solubles. Another 12.2 million pounds or 10 percent was used for bait, mostly live bait for sport fishing. The remaining 1.5 million pounds was used for pet food. Most of the anchovies were caught in purse seines, although some were taken with lampara nets.

HALIBUT. U.S. landings of Atlantic and Pacific halibut were 21.4 million pounds (round weight) valued at $34.6 million, up 3.7 million pounds and $16.1 million compared with 1978. The Pacific fishery accounted for almost 99 percent of the 1979 total. The average exvessel price per pound in 1979 was $1.62, compared with $1.05 in 1978.

HERRING, SEA. U.S. commercial landings of sea herring were 209.0 million pounds valued at $46.7 million in 1979, up 35 percent in volume and 171 percent in value compared with 1978. Landings of Atlantic sea herring were 143.4 million pounds valued at $8.4 million, up 29 percent in quantity and 25 percent in value from 1978. Landings of Pacific sea herring were 65.7 million pounds valued at $38.4 million, increases of 22.6 million pounds (52 percent) and $27.8 million (265 percent) from 1978. For Pacific sea herring, the average exvessel price per pound increased from 24 cents in 1978 to 58 cents in 1979.

JACK AND PACIFIC MACKEREL. Landings in California were 94.2 million pounds valued at $6.7 million, up 2 percent in quantity and 32 percent in value from 1978. Jack mackerel comprised 37 percent and Pacific mackerel 63 percent of the total. The year 1979 was the first year since 1959 that the catch of Pacific mackerel exceeded that of jack mackerel.

Prior to 1978, the State of California prohibited the landings of a pure trip of Pacific mackerel, and the incidental take was limited to 18 percent of a trip. The reason for more Pacific mackerel landings in 1979 was simply an increase in near-shore abundance and the removal of the State of California regulation.

MACKEREL, ATLANTIC. U.S. landings of Atlantic mackerel in 1979 were 4.5 million pounds with an exvessel value of $1.1 million -- 905,000 pounds and $283,000 more than in 1978. The foreign catch of Atlantic mackerel in the U.S. FCZ was 143,000 pounds (65 metric tons) in 1979, down 584,000 pounds (265 metric tons) from 1978.

MENHADEN. U.S. menhaden landings were a record 2.6 billion pounds valued at a record $109.4 million in 1979, up less than 1 percent in quantity, but up 11 percent in value. Greater landings in the Atlantic States more than offset a slight drop in the Gulf States. Slightly over 98 percent of the landings were reduced to meal, oil, and solubles; the rest was used for bait or for canned pet food. Louisiana was the principal State using menhaden for reduction, followed by Virginia, Mississippi, and North Carolina.

Landings of Gulf menhaden were 1,718.2 million pounds, 5 percent less than the record in 1978 of 1,808.5 million pounds. Gulf Coast landings in June and August were the second and third largest on record (406.4 and 407.2 million pounds, respectively). Seventy-eight vessels were in the fishery in 1979; most of these were inactive for short periods as tropical storms reduced fishing at all ports. Age-1 menhaden comprised 54 percent of the catch in 1979, compared with 70 percent in 1978. A few age-3 menhaden were landed in 1979. Landings in the western ports, especially at Cameron, La., contained a higher proportion of age-1 than in the central Gulf ports. Eastern Gulf ports also contained a higher proportion of age-1 fish in 1979, but age-2 menhaden contributed substantially to the excellent fishing in this area. Large catches of age-1 and age-2 fish in September and October 1979 suggest a sizable fishery for the 1980 season.

Landings along the Atlantic Coast were 886.3 million pounds worth $36.0 million in 1979, an increase of 99.8 million pounds and $15.8 million compared with 1978. The 1979 Atlantic catch was the largest since 1962. Fifty-four vessels were in the fishery in 1979, the same number as in the previous year. Age-1 (16 percent) and age-2 (68 percent) have dominated landings in recent years, but age-3 (12 percent) contributed substantial amounts in some areas. The Atlantic stock of menhaden should continue to rebuild in 1980.

PACIFIC SALMON. U.S. commercial landings were 536.1 million pounds valued at $412.8 million, an increase of 131.6 million pounds or 33 percent and $158.2 million or 62 percent compared with 1978. Excellent runs of pink and red salmon in Alaska were the major factor for the increase. Alaska accounted for 87 percent of total landings; Washington, 9 percent; Oregon, 2 percent; and California, 2 percent. A small catch of 2,000 pounds of silver salmon was made in the Great Lakes.

REVIEW

IMPORTANT SPECIES

Alaska salmon landings in 1979, the largest since 1941, were 467.7 million pounds, up 118.4 million pounds or 34 percent from 1978. Pink salmon landings in Alaska were 204.8 million pounds, the greatest since 1942. Landings of red salmon were 180.8 million pounds, up 102 percent from 1978; and chum salmon, 44.5 million pounds, up 19 percent from 1978. Silver salmon landings in Alaska were 23.0 million pounds, up 57 percent from 1978; and chinook salmon, 14.7 million pounds, up 15 percent from 1978.

Salmon landings in Washington in 1979 were 49.1 million pounds valued at $67.5 million. Compared with 1978, landings of pink (21.9 million pounds), red (9.9 million pounds), and silver (9.7 million pounds) increased while chinook (6.3 million pounds) and chum (1.3 million pounds) decreased. The largest increase was for pink salmon, which rose from 10,000 pounds in 1978 to 22.0 million pounds in 1979.

Salmon landings in Oregon were 10.5 million pounds valued at $21.2 million, down 22,000 pounds, but up $6.2 million as compared with 1978. The only decrease was for silver salmon from 6.2 million pounds in 1978 to 5.9 million pounds in 1979. Although there were no landings of pink salmon in 1978 in Oregon, 127,000 pounds were landed in 1979.

California salmon landings decreased from 11.9 million pounds in 1978 to 8.8 million pounds in 1979. Silver landings declined from 6.6 million pounds in 1978 to 1.2 million pounds in 1979, which more than offset an increase in chinook from 5.3 million pounds in 1978 to 7.6 million pounds in 1979.

SABLEFISH. U.S. commercial landings of sablefish were a record 48.4 million pounds valued at $14.8 million. This was 19.3 million pounds (66 percent) over 1978, the previous record year, and $6.5 million (78 percent) over 1978. California landings were 18.7 million pounds (down 2 percent); Alaska, 7.4 million (up 54 percent); Oregon, 16.4 million (up 486 percent); and Washington, 6.0 million pounds (up 132 percent). Expanded effort in Oregon, Washington, and Alaska was responsible for the higher catches.

TUNA. Landings of tuna in 1979 by U.S. fishermen at ports in the 50 States, Puerto Rico, and American Samoa were 508.2 million pounds, valued at $215.2 million in 1979, down 10 percent in both quantity and value from 1978. The quantity landed in 1979 was about 12 percent below the average for the previous 5 years.

The decrease in total landings was attributed primarily to reduced landings of albacore and skipjack. The 1979 albacore catch of 15.4 million pounds was down from 37.3 million pounds in 1978, and well below the average of 42.8 million pounds for the last 5 years. The drop in albacore landings was due to spotty fishing throughout the season because of adverse weather.

Skipjack landings in 1979 were 194.8 million pounds, down from a record 243.4 million pounds in 1978, but still above the average for the last 5 years.

Yellowfin tuna landings were 278.1 million pounds in 1979, up 4 percent from 1978. The incidental kill of porpoise by yellowfin tuna fishermen was estimated at 17,000 in 1979, up slightly from 1978, but still far below the 1979 quota allowed by NMFS of 41,610.

Bluefin landings were 16.0 million pounds in 1979, up 12 percent from 1978.

Slightly more than 70 percent of the tuna landings was at ports in the continental United States, principally California. Most of the rest were landed in Puerto Rico. Landings in Puerto Rico that were used for canning were 119.0 million pounds in 1979, down 19 percent from 1978.

NMFS and the U.S. Coast Guard closely regulate fishing for yellowfin tuna by U.S. fishermen in a major producing area of the eastern Pacific Ocean known as the Commission's Yellowfin Regulatory Area (CYRA). The regulation is in response to recommendations of the Inter-American Tropical Tuna Commission (IATTC). The total yellowfin quota in the CYRA for member nations was 210,000 short tons; the season extended from January 1 to July 21, 1979.

Shown below are preliminary data of the yellowfin catch by the international tuna fleet taken in the CYRA. The U.S. share increased from 57 percent in 1978 to 61 percent in 1979.

Country	1978	1979(1)
	- - - - Short tons - - - -	
Bermuda	2,683	1,728
Canada	2,816	319
Costa Rico	4,945	4,293
Ecuador	7,623	10,579
Japan	1,010	770
Mexico	19,960	24,496
Netherlands	6,249	9,445
Panama	11,270	9,152
Peru	2,586	1,478
U.S.A.	104,371	117,463
Other	18,519	13,692
Total	182,032	193,415

(1) Preliminary.

Although Costa Rica and Mexico have withdrawn from IATTC, an agreement was reach to continue under the existing regime for 1979. No agreement has been reached for the establishment of a new international regime for the management of tuna in the Eastern Tropical Pacific for 1980.

REVIEW

IMPORTANT SPECIES

CLAMS. Landings of all species yielded 92.0 million pounds of meats worth $79.2 million in 1979. Compared with 1978, landings increased 4.3 million pounds or 5 percent and $5.1 million or 7 percent. The exvessel price rose from 85 cents in 1978 to 86 cents in 1979.

Landings of surf clams yielded 34.9 million pounds of meats valued at $19.3 million, down 4.3 million pounds or 11 percent and $1.6 million or 8 percent compared with 1978. New Jersey was the leading State with 12.3 million pounds; followed by Virginia, 12.5 million pounds; Maryland, 7.8 million pounds; and New York, 1.6 million pounds.

The ocean quahog fishery produced 34.7 million pounds of meats valued at $10.2 million in 1979, an increase of 11.8 million pounds or 51 percent and $3.5 million or 53 percent. With reduced quotas on surf clams, more vessels turned to this fishery as a substitute for surf clams. New Jersey was the leading producer in the United States with 25.0 million pounds of meats, accounting for 72 percent of the total landings of ocean quahogs. Maryland was second with 6.6 million pounds or 19 percent, followed by Rhode Island, 2.9 million pounds or 8 percent.

Landings from the hard clam fishery produced 12.1 million pounds of meats valued at $33.7 million. This was a decrease of 1.2 million pounds or 9 percent, but an increase of $4.0 million or 13 percent compared with 1978. Landings in the Middle Atlantic region (mostly New York) were 6.7 million pounds; New England, 3.0 million pounds; South Atlantic, 1.7 million pounds; Chesapeake, 640,000 pounds; and the Pacific, 41,000 pounds. The Middle Atlantic region was the only area with a decline (13 percent) from 8.1 million pounds in 1978 to 6.7 million pounds in 1979.

Landings of soft clams yielded 8.6 million pounds of meats valued at $13.8 million. This was a decrease of 1.5 million pounds or 15 percent, but an increase of $290,000 or 2 percent in value compared with 1978. Maine was the leading State with 5.2 million pounds; Maryland was second with 2.7 million pounds.

CRABS. Landings of all species of crabs were a record 489.2 million pounds, valued at $284.2 million, an increase of 40.0 million pounds (9 percent), but a decrease of $789,000 compared with 1978. Landings increased for all major species except dungeness crab.

Landings of hard blue crabs were 152.8 million pounds, valued at $31.4 million, an increase of 14.6 million pounds (11 percent), and $3.2 million (12 percent) compared with 1978. Blue crab landings increased 23 percent in the Chesapeake States (64.2 million) over 1978. Blue crab landings in New England States were 3.0 million pounds, up 7 percent; South Atlantic landings were 49.2 million pounds, up 4 percent; and the landings in the Gulf States, 38.2 million pounds, up 1 percent.

Dungeness crab landings were 38.7 million pounds worth $31.0 million, a decrease of 561,000 pounds (1 percent), but an increase of $2.6 million (9 percent) compared with 1978. The average price per pound went from 72 cents in 1978 to 80 cents in 1979. Landings in California were down 66 percent, and in Alaska, down 14 percent in 1979. Landings in Oregon increased 27 percent; and in Washington, 19 percent.

U.S. landings in 1979 of king crabs were 154.6 million pounds, valued at $148.6 million to the fishermen. This was the second largest harvest in history of this fishery, surpassed only by the 1965 landings of 159.2 million pounds. The fishery in the Bering Sea continued to expand in 1979, and reached 132.6 million pounds, valued at $127.7 million. Landings from the Gulf of Alaska were 22.0 million pounds with an exvessel price of 95 cents per pound compared with 58.5 million pounds landed in 1978 with a value of 38 cents per pound.

Snow (tanner) crab landings were a record 131.4 million pounds, valued at $64.8, an increase of 1.9 million pounds (1 percent) and $12.3 million (23 percent) in value compared with 1978. Landings taken in the Bering Sea of the smaller Chionoecetes opilio were 32.2 million pounds while C. bairdi were 42.5 million pounds. Landings of C. bairdi from the Gulf of Alaska were 56.6 million pounds, down 1.9 million pounds, but up $9 million compared with 1978.

LOBSTER, AMERICAN. Landings of American lobster in 1979 were a record 37.2 million pounds valued at $72.3 million, up 8 percent in quantity and 12 percent in value compared with 1978. The average exvessel value increased from $1.88 per pound in 1978 to $1.94 in 1979. Maine, the principal producing area, received landings of 22.1 million pounds, an increase of 16 percent from 1978. Massachusetts landings (9.3 million pounds) declined 84,000 pounds, and Rhode Island landings (2.3 million pounds) declined 518,000 pounds.

LOBSTER, SPINY. U.S. landings of spiny lobsters were 6.3 million pounds valued at $12.8 million in 1979, up 1.8 million pounds and $3.1 million from 1978. The quantity landed in 1979 was 9 percent below the average for the previous 5 years. The 1979 average exvessel price per pound was $2.03, compared with $2.10 in 1978. Florida landings accounted for 94 percent of the catch.

REVIEW

IMPORTANT SPECIES

OYSTERS. U. S. landings in 1979 yielded 48.1 million pounds of meats valued at $65.6 million, 2.9 million pounds less and $1.1 million more than in 1978. The Chesapeake States led in production with 20.4 million pounds of meats, followed by the Gulf States with 15.3 million pounds. Landings decreased slightly in all areas except the Pacific where landings remained about the same as the previous year.

SHRIMP. U.S. landings were 336.0 million pounds (heads-on) valued at $471.6 million--down 21 percent in volume but up 22 percent in value compared with 1978. The amount landed was the lowest since 1969 and 17 percent below the average for the previous 5 years. Shrimp was the most valuable fishery in the United States. The exvessel price increased from 91 cents a pound in 1978 to $1.40 in 1979. Shrimp landings declined in the Gulf States and Alaska, the principal producing areas, but increased in the South Atlantic and New England States.

Gulf landings of 206.6 million pounds were down 17 percent from 1978. Louisiana led all States in 1979 with 80.2 million pounds (down 23 percent), followed by Texas with 67.6 million pounds (down 20 percent). The world's largest oil spill, IXTOC, off Campeche, Mexico, threatened the Gulf shrimp industry along the Texas Coast in the summer of 1979.

Pacific Coast and Alaska landings of 96.0 million pounds were 38 percent less than in 1978 and 40 percent below the previous 5-year average. Landings declined in all States except Washington.

Shrimp landings in the South Atlantic were 32.3 million pounds, an increase of 60 percent from 1978, and the greatest since 1950. Landings increased sharply in all South Atlantic States.

New England landings were 1.1 million pounds in 1979 compared with 7,000 pounds in 1978. Slightly over 90 percent of the landings were made in Massachusetts.

SCALLOPS. U.S. landings of all species in 1979 yielded a record 34.1 million pounds worth $111.8 million in 1979--up 2 percent or 808,000 pounds in volume and 37 percent or $30.0 million in value from 1978.

U.S. bay scallop landings in 1979 of 1.8 million pounds of meats valued at $6.8 million were up 403,000 pounds and $2.6 million from 1978. In Massachusetts, the leading State, landings of 1.1 million pounds were up 38 percent from 1978.

Calico scallop landings of 863,000 pounds of meats valued at $1.8 million in 1979 were down 85,000 pounds or 9 percent, but up by $545,000 or (42 percent) from 1978. The west coast of Florida was the leading producing area with 472,000 pounds (55 percent).

REVIEW

PER CAPITA CONSUMPTION

PER CAPITA CONSUMPTION. U.S. per capita consumption of edible fish and shellfish was 13.3 pounds (edible meat) in 1979, down 0.3 pound from the record 13.6 pounds consumed in 1978. Per capita consumption of fresh and frozen products was 8.0 pounds in 1979, down 0.2 pound. A decline of 0.1 pound in consumption of both finfish products and shrimp accounted for the decrease. Per capita consumption of canned products was 4.9 pounds in 1979, down 0.2 pound. Consumption of canned salmon and other canned fish each were down 0.1 pound from 1978. Per capita consumption of cured fish was 0.4 pound in 1979, up 0.1 pound from 1978.

In addition to consumption of commercially caught fish and shellfish, recreational fishermen catch a considerable amount estimated to be 3 to 4 pounds (edible meat) per person.

PER CAPITA USE. The per capita use of all fishery products, both edible and industrial, was 53.6 pounds (round weight) in 1979, up 1.0 pound (2 percent) from 1978. The reason for the increase was that both U.S. production and imports were up. The per capita use of edible fishery products rose 3 percent, and industrial use increased almost 1 percent.

PROCESSED FISHERY PRODUCTS

FRESH AND FROZEN

FISH FILLETS AND STEAKS. In 1979, the U.S. production of raw (uncooked) fish fillets and steaks was 179.6 million pounds valued at $253.3 million, down 4.7 million pounds, but up $11.9 million compared with 1978. Flounder fillets led all species with 47.0 million pounds or 26.1 percent of the total. Production of groundfish fillets and steaks (cod, cusk, haddock, hake, Atlantic pollock, and Atlantic ocean perch) was 74.8 million pounds in 1979, compared with 65.6 million pounds produced a year earlier. Production of groundfish fillets and steaks was higher in 1979, except for cusk and Atlantic ocean perch.

FISH BLOCKS. Total U.S. production was 4.9 million pounds valued at $4.4 million in 1979, up sharply from 1.9 million pounds valued at $1.6 million in 1978. The U.S. production of each species of blocks is included with the appropriate species of fillets to avoid disclosure of individual operations.

FISH STICKS AND PORTIONS. The combined production of fish sticks and portions was 482.2 million pounds valued at $517.9 in 1979, a decline of 1.9 million pounds, but an increase of $15.3 million compared with 1978. The production of fish portions of 390.4 million pounds valued at $423.4 million set a new record in 1979. The production of batter-coated cooked portions of 100.6 million pounds increased 14.0 million pounds from 1978. The 1979 production of raw breaded portions of 177.4 million pounds, unbreaded portions of 30.4 million pounds, and cooked breaded portions of 82.0 million pounds was down from 1978 by 5.0 million pounds, 2.4 million pounds, and 5.6 million pounds, respectively.

FISH STICKS. Production in 1979 of 91.9 million pounds valued at $94.5 million was 2.8 million pounds less, but $7.8 million more than in 1978. The 1979 production of batter-coated cooked fish sticks increased by 5.9 million pounds from 1978.

BREADED SHRIMP. The 42 plants reporting to NMFS on a quarterly basis produced 93.8 million pounds valued at $293.1 million in 1979. In 1978, these same plants produced 108.0 million pounds valued at $251.8 million. The 15 additional firms that reported only on an annual basis in 1978 produced 2.8 million pounds valued at $3.8 million that year. Data on the 1979 production of the plants that report only on an annual basis are not yet available.

FROZEN FISHERY TRADE. In 1979, stocks of frozen fishery products in cold storage were at a low of 292.2 million pounds on March 30 and a high of 471.2 million pounds on December 31. Cold storage holdings of shrimp products, which were 59.1 million pounds on January 31, dropped to 34.7 million pounds on May 31, and ended the year at 87.4 million pounds on December 31. Fish block holdings reached an unusual high of 74.0 million pounds on August 31, because of large imports of cod and pollock during that month. By the end of 1979, stocks of fish blocks had declined to 62.5 million pounds. Due to heavy U.S. landings of king crab in 1979, crab product holdings reached a record 52.9 million pounds on December 31, 1979.

REVIEW

PROCESSED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS. The 1979 pack of canned fishery products in the 50 States, American Samoa, and Puerto Rico was 52.3 million standard cases (1.4 billion pounds) valued at $1.8 billion--decreases of 6.6 million standard cases (167.8 million pounds) and $145.1 million compared with the 1978 pack. The 1979 pack included 42.4 million standard cases (972.1 million pounds) for human consumption and 9.9 million standard cases (475.6 million pounds) for bait and animal food. The packs of gefiltefish, Maine sardines, tuna specialties, and clam and clam products increased in 1979, but all other packs of fish and shellfish products declined.

CANNED SALMON. The 1979 U.S. pack of Pacific salmon was slightly more than 3.1 million standard cases valued at a record $277.1 million, a decrease of 274,900 standard cases (8 percent), but an increase of $28.6 million compared with 1978. The Alaska pack of 3.1 million standard cases valued at $269.8 million represented 98 percent of the quantity and 97 percent of the value in 1979.

Pink salmon (1.9 million standard cases) made up 61 percent of the pack in 1979. Red (sockeye) pack (1.0 million standard cases) remained at the same level as in 1978. Chum (keta), silver (coho), and chinook (king) packs declined in 1979. Nearly 73,000 standard cases of salmon were packed in plants in Washington and Oregon in 1979, compared to the 13,700 standard cases packed in 1978.

CANNED SARDINES. The pack of Maine sardines (sea herring) was 1.3 million standard cases valued at a record $44.8 million in 1979, an increase of 170,700 standard cases and $9.2 million from 1978. An additional pack of herring and herring specialties of 71,600 standard cases valued at $4.8 million was reported in 1979, 23,400 standard cases and $1.0 million less than the 1978 pack.

CANNED TUNA. The 1979 U.S. pack of tuna was 31.4 million standard cases, (620.9 million pounds) valued at $1.1 billion. This was 4.2 million standard cases (83.9 million pounds) and $163.7 million less than the record pack in 1978. The pack of albacore tuna was 5.8 million standard cases in 1979, 18 percent less than the 7.1 million cases produced in 1978. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remaining 82 percent of the pack or 25.6 million standard cases. Plants in the continental United States packed 44 percent of the total; American Samoa, Hawaii, and Puerto Rico packed the rest. About 32 percent of the total supply of canned tuna was packed from U.S.-caught fish, and 60 percent from imported fish. Imports of canned tuna made up the remaining 8 percent.

CANNED CLAMS. The U.S. pack of clams (whole, minced, chowder, and juice) was 2.9 million standard cases valued at $62.7 million in 1979, an increase of 325,400 standard cases and $2.5 million compared with 1978. The 1979 pack of whole and minced clams of 792,700 standard cases, which was 132,700 standard cases more than the 1978 pack, accounted for 27 percent of the total pack in 1979. Clam chowder and clam juice (2.2 million standard cases) made up the remaining 1979 pack.

CANNED SHRIMP. The 1979 U.S. pack of shrimp (natural) was 1.5 million standard cases valued at $42.1 million, 945,800 standard cases and $6.4 million less than the 1978 pack, and the lowest pack since 1964 when only 1.4 million cases were packed. Plants in Louisiana and Mississippi packed 900,000 standard cases or 58 percent of the pack; the remaining 644,000 standard cases or 42 percent were packed in plants in Alaska, Oregon, and Washington.

OTHER CANNED ITEMS. The U.S. pack of jack mackerel was 582,000 standard cases valued at $7.7 million in 1979, a decline of 140,100 standard cases and $2.1 million compared with 1978. The pack of tunalike fish (bonito and yellowtail) was 77,100 standard cases valued at $1.6 million, down 103,300 standard cases and $2.0 million compared with a year earlier. The natural pack of oysters, which has declined over the past several years, was 65,900 standard cases valued at $1.1 million in 1979, 19,800 standard cases and $275,000 less than in 1978.

CANNED PET FOOD. In 1979, the pack of pet food (10 pounds of fish per standard case of 48 one-pound cans) was 9.9 million standard cases valued at $148.0 million, a decline of 1.3 million standard cases and $14.3 million compared with the pack in 1978. The pack of pet food from tuna represents the major part of the pet food pack, and the smaller pet food pack reflects the decline in the canned tuna pack in 1979.

REVIEW

PROCESSED FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS. The 1979 value of industrial fishery products produced in the 50 States, American Samoa, and Puerto Rico was a record $263.4 million, $12.5 million more than the previous record in 1978. In terms of value, the leading States was Louisiana ($100.1 million), followed by Maine ($44.5 million), and California ($27.7 million).

FISH MEAL AND SCRAP. Domestic production in 1979 (including shellfish meal) was a record 373,818 short tons, 10,908 short tons more than the previous record in 1978. Menhaden meal (280,813 short tons) set a new record in 1979 and was 75 percent of all fish and shellfish meal production. The 1979 production of anchovy meal (9,886 short tons) was 7,810 short tons more than in 1978. Unclassified fish meal in 1979 (24,850 short tons) consisting principally of alewives, carp, and herring meal was slightly more than the 1978 production. The 1979 production of shellfish meal, consisting entirely of crab and shrimp meal, was 10,878 short tons, up 1,681 short tons from 1978.

FISH SOLUBLES. Domestic production of fish solubles in 1979 was only 134,928 short tons, 27,615 short tons less than in 1978. Menhaden solubles accounted for 78 percent of the production.

FISH OILS. The 1979 domestic production of fish oils was 267.7 million pounds, 28.6 million pounds less than in 1978. Menhaden oil production of 251.3 million was 32.7 million pounds less than the record 284.0 million pounds produced in 1978. Tuna and mackerel oil increased to 5.4 million pounds, up 1.0 million pounds. Anchovy oil production rose to 1.9 million pounds in 1979 because of greater landings of anchovies.

OTHER INDUSTRIAL PRODUCTS. Oyster shell products, together with agar-agar, animal feeds, crab and clam shells processed for food serving, fish pellets, Irish moss extracts, kelp products, liquid fertilizer, pearl essence, and shark leathers, were valued at $59.6 million in 1979, compared with $46.7 million in 1978.

FOREIGN TRADE IN FISHERY PRODUCTS

IMPORTS. The value of U.S. imports of edible fishery products was a record $2,668 million, 18 percent higher than the record $2,253 million established in 1978. However, the quantity of edible imports in 1979 of 2,369 million pounds was 2 percent less than 1978's 2,411 million pounds, an all-time record. The substantial increase in value for edible imports was mainly due to higher prices for nearly all imported products.

Imports were higher in 1979 for fresh and frozen cod and flounder, fish blocks, and shrimp. But those increases were more than offset by a drop in the imports of herring, frozen tuna, crabs and crab meats, and fillets and steaks other than groundfish. Edible imports in 1979 consisted of 2,090 million pounds of fresh and frozen products valued at $2,347 million, 208 million pounds of canned products valued at $251 million, and 71 million pounds of cured products valued at $70 million.

Adding nonedible imports valued at $1,143 million to the edible products gives total imports in 1979 of $3,811 million, 24 percent more than in 1978. Again, higher prices for most nonedible products accounted for the increase.

EXPORTS. U.S. exports of edible fishery products of domestic origin in 1979 broke the record established in 1978 for both quantity and value. The new record in 1979 was 553.6 million pounds valued at $1,020.2 million. This was an increase of 23 percent in both quantity and value from 1978's 448.3 million pounds valued at $831.7 million.

Adding exports of nonedible products valued at $62.2 million to exports of edible products results in total exports of $1,082.4 million in 1979, 20 percent more than the previous year.

U.S. MARINE RECREATIONAL FISHERIES

The number of marine recreational fishermen has grown substantially in recent years, and their harvest is no longer inconsequential. Estimates indicate that there are now 20-25 million marine recreational fishermen in the United States. Expenditures by these fishermen for recreational fishing and the value of associated industries (such as tackle, boat, and trailer manufacturers, and the party and charter boat industries) make a significant contribution to the U.S. economy.

Most species of marine finfish are harvested by both commercial and recreational fishermen. The recreational catch exceeds that of the commercial fishery for many species. There are indications that recreational fishermen now account for about 40 percent of the total U.S. finfish harvest used for food. The magnitude of the recreational fishery and the need to conserve marine fisheries point up the need for extensive statistical information and analysis in order to produce meaningful regulations. Statistics on the domestic commercial fishery in the United States have been collected for many years. The difficulty and expense of collecting reliable statistics on the marine recreational fishery was recognized many years ago. The problems associated with collecting these data include high cost and reliability of the data.

The size and distribution of the recreational fisheries makes a complete census of all fishermen impractical. Therefore, a survey must be conducted to collect data from a sample of recreational fishermen, and the survey data must be expanded to estimate the entire population of fishermen and their catches.

Comprehensive collection of catch statistics on marine recreational fisheries requires careful attention to survey design and analysis. Fishermen are widely dispersed spatially and temporally along the coast, fishing from boats, piers, jetties, docks, and the open beach. They fish day and night, anytime throughout the year, and there is no central location from which to obtain data from all fishermen. A significant proportion of the U.S. population, perhaps 10 percent, engages in marine recreational fishing at one time or another throughout a year. However, as most coastal States do not license or register marine recreational fishermen and there is no national licensing or registration system, there is no identifiable universe or list of recreational fishermen from which to select a sample for data collection purposes.

Previous surveys in the United States to collect data on recreational fisheries have used either a survey of fishermen at home (household survey) or a survey of fishermen at the fishing location (creel census or intercept survey). Most of these efforts have covered small geographical areas, have been seasonal, or have addressed specific fisheries. The first surveys covering the entire United States were the Salt-Water Angling Surveys of 1960, 1965, and 1970. These surveys used personal interviews with fishermen at the end of the year to obtain estimates of catch and effort. Regional surveys were conducted in 1974 and 1975, using a combination telephone and mail survey of households at 2-month intervals to estimate participation, catch, and effort.

These surveys required fishermen to recall certain information over time. Biases introduced by the inability of fishermen to recall accurately the number and size of fish caught and to identity correctly the species caught raised questions regarding the reliability of the data. These questions, coupled with several other inadequacies in statistical design, prompted NMFS to examine ways of improving the survey design to provide more reliable data.

In 1976 and 1977, NMFS studied the methodological problems identified in previous surveys. Based on this study, an optimum survey design was adopted, consisting of two indepentent surveys -- a telephone survey of households and an intercept survey. The significance of this method is the use of two independent surveys, each providing certain information which is combined to produce estimates of participation, effort, total catch, and catch by species.

The survey design, using two independent surveys, represents a significant improvement in methodology over past surveys to collect data on recreational fisheries. Fishermen are not required to recall information over time about their catches, since the interviewer in the intercept survey examines the catches. The interviewer identifies the species of fish caught, not relying on the fishermen for identification.

The first year's survey included the Atlantic Coast, Gulf Coast, Caribbean area (Puerto Rico and the U.S. Virgin Islands), and Western Pacific area (Hawaii, Guam, and American Samoa). This 1-year survey began in November 1978 and continued through October 1979, but was extended through December 1979. The second year's survey covering calendar year 1980 began in January 1980 and includes the Atlantic Coast, Gulf Coast, and Western Pacific area (now including the Northern Mariana Islands). A 1-year survey was started on the Pacific Coast in July 1979. These surveys are planned to continue annually for the next several years.

U.S. COMMERCIAL LANDINGS, 1979

U.S. COMMERCIAL LANDINGS, BY SPECIES, 1978 AND 1979 (1)

Species	1978		1979		5-year average (1974-78)
Fish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds
Alewives:					
Atlantic and Gulf	12,696	556	9,691	639	17,897
Great Lakes	42,279	702	23,871	501	40,292
Anchovies	35,380	5,545	117,403	9,895	207,385
Bluefish	11,563	1,613	13,207	2,197	10,856
Bonito	8,894	1,932	5,442	1,066	18,489
Butterfish	8,081	2,906	6,053	2,127	4,537
Cod:					
Atlantic	86,737	21,516	99,352	28,632	66,618
Pacific	10,710	2,258	12,382	2,639	11,370
Croaker	32,961	5,093	28,040	5,781	30,029
Cusk	3,385	616	3,736	792	2,994
Flounders:					
Atlantic and Gulf:					
Blackback	25,300	10,990	24,810	9,868	20,845
Fluke	18,692	11,790	30,721	15,977	18,566
Yellowtail	25,172	15,165	35,246	17,679	39,503
Other	48,746	21,433	50,254	22,386	32,270
Pacific	62,810	13,384	68,257	16,835	57,575
Total	180,720	72,762	209,288	82,745	168,759
Groupers	6,633	4,643	8,156	6,424	7,378
Haddock	39,488	12,669	41,882	17,705	21,032
Hake:					
Pacific (whiting)	7,267	188	30,750	2,057	4,754
Red	4,841	538	7,040	953	3,873
White	10,909	1,697	8,881	1,470	9,492
Halibut	17,677	18,527	21,385	34,618	18,631
Herring, sea:					
Atlantic	111,310	6,724	143,372	8,395	97,013
Pacific	43,087	10,505	65,658	38,351	47,651
Jack mackerel	68,000	3,740	35,150	2,525	57,075
Lingcod	6,588	1,450	7,143	1,673	8,006
Mackerel:					
Atlantic	3,558	776	4,463	1,059	3,702
King	5,528	3,505	4,859	3,503	7,741
Pacific	24,563	1,351	59,005	4,208	7,117
Spanish	7,297	1,367	6,450	1,431	11,759
Menhaden:					
Atlantic	786,466	20,233	886,238	36,004	741,882
Gulf	1,808,547	78,039	1,718,243	73,426	1,305,059
Total	2,595,013	98,272	2,604,481	109,430	2,046,941
Mullet	31,824	5,591	25,886	4,817	29,439
Ocean perch:					
Atlantic	35,578	6,093	34,039	7,164	35,260
Pacific	5,391	1,003	7,286	1,487	5,315
Pollock:					
Atlantic	39,055	6,579	35,546	6,657	26,427
Alaska	3,892	220	5,625	471	1,054
Rockfishes	59,409	12,760	68,010	15,285	43,477
Sablefish	29,188	8,337	48,441	14,827	21,424
Salmon, Pacific:					
Chinook or king	29,776	39,828	33,008	57,270	30,125
Chum or keta	50,485	30,885	45,784	26,363	48,029

See footnotes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS, BY SPECIES, 1978 AND 1979 (1) - Continued

Species	1978		1979		5-year average (1974-78)
Fish - continued	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds
Salmon, Pacific - cont.:					
Pink	194,873	64,496	226,830	92,059	104,257
Red or sockeye	98,707	82,978	190,727	180,404	74,679
Silver or coho	30,648	36,350	39,767	56,680	33,647
Total	404,489	254,537	536,116	412,776	290,737
Scup or porgy	21,547	5,648	20,472	7,219	17,974
Sea bass:					
Black	4,978	2,201	4,531	2,581	4,893
White	900	855	900	1,056	972
Sea trout:					
Gray	21,417	4,386	30,579	6,282	18,781
Spotted	4,261	2,447	4,455	3,151	6,208
White	1,177	214	1,322	283	1,709
Sharks:					
Dogfish	7,991	761	19,319	1,681	(2)
Other	1,742	335	3,325	1,561	3,227
Snapper:					
Red	5,577	6,409	4,941	7,042	7,494
Other	2,946	2,859	2,854	2,996	2,582
Striped bass	4,497	4,664	3,492	4,241	7,215
Tuna:					
Albacore	37,308	22,598	15,418	9,972	42,818
Bigeye	1,283	630	2,934	2,301	1,257
Bluefin	13,690	6,853	14,897	8,800	17,753
Little	150	70	126	56	92
Skipjack	151,596	60,980	120,104	44,876	105,947
Yellowfin	203,594	85,665	210,227	92,294	237,409
Unclassified	1,257	153	770	88	609
Total	408,878	176,949	364,476	158,387	405,885
Warsaw	160	65	83	43	183
Whiting	51,074	7,188	35,264	5,770	43,181
Wolffish	1,447	162	1,530	223	1,210
Other marine finfishes:					
Atlantic and Gulf	208,771	47,679	195,731	47,784	-
Pacific	31,927	9,238	12,782	5,198	-
Other freshwater finfishes	84,115	22,763	88,247	24,167	-
Total Fish	4,857,396	871,394	5,132,392	1,113,965	-
Shellfish et al.					
Clams:					
Hard	13,295	29,738	12,058	33,720	14,727
Ocean quahog	22,965	6,707	34,724	10,233	9,850
Soft	10,091	13,486	8,585	13,776	10,002
Surf	39,237	20,901	34,912	19,273	64,499
Other	2,123	3,299	1,771	2,203	1,218
Total	87,711	74,131	92,050	79,205	100,296
Crabs:					
Blue, hard	138,230	28,180	152,830	31,424	133,288
Dungeness	39,251	28,448	38,690	31,019	33,294
King	130,238	168,066	154,589	148,550	105,685
Snow (tanner)	129,506	52,556	131,393	64,834	83,874
Other	11,917	7,782	11,682	8,416	10,406
Total	449,142	285,032	489,184	284,243	366,547

See footnotes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS, BY SPECIES, 1978 AND 1979 (1) - Continued

Species	1978		1979		5-year average (1974-78)
Shellfish et al. - continued:	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds
Lobsters:					
American	34,419	64,645	37,184	72,298	31,271
Spiny	4,629	9,709	6,301	12,765	6,889
Oysters	50,983	60,897	48,081	65,612	50,961
Scallops:					
Bay	1,371	4,166	1,774	6,798	1,562
Calico	948	1,301	863	1,846	1,490
Sea	30,976	76,346	31,466	103,206	18,470
Shrimp:					
New England	7	1	1,072	338	6,454
South Atlantic	20,138	30,878	32,295	65,273	23,252
Gulf	248,327	319,590	206,564	377,642	216,138
Pacific	154,403	35,017	96,019	28,300	159,400
Other	6	21	6	20	12
Total	422,881	385,507	335,956	471,573	405,256
Squid:					
Atlantic	3,739	1,453	13,392	4,273	5,530
Pacific	37,401	3,432	35,297	3,703	25,944
Other shellfish	46,104	16,487	43,212	14,192	-
Total shellfish et al.	1,170,304	983,106	1,134,760	1,119,714	-
Grand total	6,027,700	1,854,500	6,267,152	2,233,679	-

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell).
(2) Data not available.
Note:--Data are preliminary; they do not include landings outside the 50 States. Data do not include products of aquaculture, except oysters and clams.

U.S. COMMERCIAL LANDINGS, BY REGIONS, 1978 AND 1979 (1)

Region	1978		1979	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
New England	660,717	256,510	708,606	302,037
Middle Atlantic	200,603	78,591	228,452	92,433
Chesapeake	598,618	94,179	638,990	121,577
South Atlantic	398,940	96,276	488,422	145,154
Gulf	2,286,998	473,227	2,128,903	530,145
Pacific Coast and Alaska	1,740,855	820,632	1,924,718	1,005,687
Great Lakes	68,197	10,429	48,975	10,814
Hawaii	14,575	11,620	13,664	10,659
Other	58,197	13,036	86,422	15,173
Total	6,027,700	1,854,500	6,267,152	2,233,679

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell).

Note:--Data are preliminary; they do not include landings outside the 50 States. Data do not include products of aquaculture, except oysters and clams.

U.S. COMMERCIAL LANDINGS

U.S. COMMERCIAL LANDINGS, BY STATES, 1978 AND 1979 (1)

State	1978		1979		Record landings	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Year	Thousand pounds
Alabama (2)	31,553	35,922	33,269	49,981	1973	39,749
Alaska	745,586	438,616	898,539	597,034	1936	932,341
California	722,311	228,238	728,406	227,473	1936	1,760,183
Connecticut	5,053	4,368	6,456	6,900	1930	88,012
Delaware	1,056	500	1,627	638	1953	367,500
Florida	171,462	97,519	163,056	124,002	1938	241,443
Georgia	17,493	14,567	21,909	27,738	1927	47,607
Hawaii	14,575	11,620	13,664	10,659	1954	20,610
Idaho	400	35	400	35	-	(3)
Illinois	3,556	826	4,618	1,024	-	(3)
Indiana	162	106	101	66	-	(3)
Iowa	3,730	820	3,741	818	-	(3)
Kansas	22	7	170	35	-	(3)
Louisiana	1,673,922	190,167	1,529,081	198,508	1978	1,673,922
Maine	190,203	68,833	232,105	80,260	1950	356,266
Maryland	59,726	33,557	66,283	36,945	1890	141,607
Massachusetts	376,878	152,251	374,706	175,544	1948	649,696
Michigan	11,158	3,529	10,945	3,555	1930	35,580
Minnesota	9,043	1,822	10,571	1,946	-	(3)
Mississippi	377,534	28,291	383,632	33,342	1971	400,576
Missouri	863	152	970	203	-	(3)
Nebraska	134	45	111	25	-	(3)
New Hampshire	4,862	1,750	7,495	3,327	-	(3)
New Jersey	163,685	44,432	189,314	53,034	1956	540,060
New York	36,340	33,870	37,895	38,966	1880	335,000
North Carolina	299,536	40,607	390,472	58,454	1979	390,472
North Dakota	635	87	727	101	-	(3)
Ohio	9,515	2,563	9,193	2,559	1936	31,083
Oregon	134,657	56,600	127,798	65,221	1978	134,657
Pennsylvania	426	257	393	251	-	(3)
Rhode Island	83,721	29,308	87,844	36,006	1889	128,056
South Carolina	20,610	16,031	21,449	25,792	1965	26,611
South Dakota	2,840	314	2,259	309	-	(3)
Texas	103,524	148,901	84,891	160,200	1960	237,684
Virginia	538,892	60,622	572,707	84,632	1972	666,180
Washington	138,301	97,178	169,975	115,959	1941	197,253
West Virginia	68	18	31	14	-	(3)
Wisconsin	53,218	4,186	36,205	4,862	-	(3)
Other	20,450	5,985	44,144	7,261	-	(3)
Total	6,027,700	1,854,500	6,267,152	2,233,679	1979	6,267,152

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell).
(2) Landings in interior waters estimated.
(3) Not determined.

Note:--Data are preliminary; they do not include landings outside the 50 States. Data do not include products of aquaculture, except oysters and clams.

COMMERCIAL FISHERY LANDINGS AT MAJOR U.S. PORTS, 1976-79

Port	Quantity				Port	Value			
	1976	1977	1978	1979		1976	1977	1978	1979
	Million pounds					Million dollars			
Cameron, La.	385.3	306.7	606.0	593.1	Dutch Harbor, Alaska.	48.3	61.4	99.7	92.7
San Pedro, Calif.	650.9	519.5	312.8	378.2	San Pedro, Calif.	*117.1	109.1	92.1	89.3
Pascagoula-Moss Point, Miss.	218.6	272.2	334.8	283.8	Kodiak, Alaska	38.0	72.5	92.6	73.4
Empire-Venice, La.	214.0	190.5	292.8	278.9	New Bedford, Mass.	39.2	43.2	54.6	67.4
Dulac-Chauvin, La.	236.9	153.7	300.2	246.3	San Diego, Calif.	30.0	43.4	69.8	62.7
Beaufort-Morehead City, N.C.	79.1	100.7	108.7	218.5	Brownsville-Port Isabel, Tex.	33.0	42.0	43.0	50.0
Gloucester, Mass.	144.2	150.9	185.1	160.2	Dulac-Chauvin, La.	32.8	33.1	46.7	41.5
San Diego, Calif.	100.7	124.1	168.3	156.6	Aransas Pass-Rockport, Tex.	28.0	39.0	39.0	40.0
Kodiak, Alaska	151.4	179.6	177.4	150.5	Bayou La Batre, La.	21.5	25.7	25.1	34.9
Dutch Harbor, Alaska.	91.3	100.5	125.8	136.8	Cameron, La.	21.7	18.9	34.2	34.3
New Bedford, Mass.	64.9	75.5	71.9	86.0	Cape May-Wildwood, N.J.	14.6	20.7	25.1	32.2
Portland, Maine.	27.3	30.4	45.9	59.6	Hampton-Norfolk, Va.	6.2	9.1	24.3	31.1
Cape May-Wildwood, N.J.	39.2	48.6	47.7	58.3	Gloucester, Mass.	16.5	21.5	28.9	29.7
Pt. Judith, R.I.	(1)	(1)	55.3	54.3	Empire-Venice, La.	16.7	18.0	26.4	28.8
Rockland, Maine	(1)	(1)	40.1	41.8	Akutan, Alaska	(1)	15.9	21.2	28.2
Astoria, Oreg.	28.5	28.5	45.6	40.4	Petersburg, Alaska	(1)	20.0	17.5	26.0
Bellingham, Wash.	(1)	33.0	38.0	40.0	Key West, Fla.	14.6	18.0	22.4	25.9
Akutan, Alaska	(1)	20.8	17.2	38.2	Freeport, Tex.	23.0	26.0	28.0	25.0
Newport, Oreg.	14.0	23.3	33.1	36.0	Beaufort-Morehead City, N.C.	5.0	4.5	6.2	22.7
Petersburg, Alaska	(1)	33.6	36.0	34.8	Golden Meadow-Leeville, La.	15.8	18.5	19.1	22.5
Wanchese-Stumpy Point, N.C.	(1)	(1)	20.5	34.6	Astoria, Oreg.	10.1	10.0	20.1	18.2
Eureka, Calif.	35.5	48.7	44.4	32.1	Pascagoula-Moss Point, Miss.	12.5	17.6	19.4	18.1
Boston, Mass.	23.3	22.2	27.3	30.3	Ft. Myers, Fla.	6.7	8.0	13.1	17.8
Hampton-Norfolk, Va.	12.1	18.7	31.2	27.2	Bellingham, Wash.	(1)	14.5	15.3	16.3
Westport, Wash.	(1)	27.0	30.0	25.0	Lafitte-Barataria, La.	13.4	12.7	11.5	16.6
Charleston-Coos Bay, Oreg.	17.8	23.4	27.1	23.5	Ketchikan, Alaska	(1)	23.9	26.4	16.4
Provincetown, Mass.	(1)	17.9	19.9	23.4	Bon Secour-Gulf Shores, Ala.	8.3	10.1	10.0	16.0
Ketchikan, Alaska	(1)	54.8	55.7	22.1	Delcambre, La.	8.8	10.7	16.7	14.8
Brownsville-Port Isabel, Tex.	22.0	28.0	24.0	22.0	Eureka, Calif.	13.3	17.0	19.5	14.3
Bayou La Batre, Ala.	26.4	25.1	22.2	21.8	Newport, R.I.	10.0	9.2	10.7	13.2
Newport, R.I.	23.6	18.4	16.8	21.6	Wanchese-Stumpy Point, N.C.	(1)	(1)	8.5	13.0
Oriental-Vandemere, N.C.	(1)	(1)	(1)	19.5	Newport, Oreg.	5.4	9.3	10.6	12.6
Aransas Pass-Rockport, Tex.	20.0	25.0	23.0	19.0	Charleston-Mt. Pleasant, S.C.	(1)	(1)	(1)	12.5
Ocean City, Md.	10.3	12.0	14.4	18.4	Pt. Judith, R.I.	(1)	(1)	9.5	11.0
Sandwich, Mass.	(1)	(1)	(1)	17.5	Westport, Wash.	(1)	13.0	12.5	10.8
Key West, Fla.	13.8	15.0	15.0	16.5	Boston, Mass.	6.8	6.0	8.1	10.7
Seattle, Wash.	(1)	15.3	16.3	16.5	Provincetown, Mass	(1)	6.9	9.1	10.3
Ft. Myers, Fla.	5.2	6.0	15.2	15.9	Apalachicola, Fla.	6.8	5.5	13.3	10.1
Golden Meadow-Leeville, La.	25.6	23.5	22.1	15.6	Portland,Maine	3.4	4.7	7.5	10.1
Point Pleasant, N.J.	12.5	14.1	15.7	12.8	Sandwich, Mass.	(1)	(1)	(1)	9.8
Chincoteague, Va.	(1)	(1)	13.0	12.3	Darien-Bellville, Ga.	(1)	(1)	(1)	8.7
Anacortes-La Conner, Wash.	(1)	(1)	11.6	12.0	Charleston-Coos Bay, Oreg.	8.9	9.4	9.2	8.2
Blaine, Wash.	(1)	(1)	10.0	10.5	Ocean City, Md.	5.0	5.9	6.9	8.2
Lafitte-Barataria, La.	18.7	18.3	13.1	10.4	Thunderbolt, Ga.	(1)	(1)	(1)	8.1
Apalachicola, Fla.	7.7	5.7	12.4	10.4	Point Pleasant, N.J.	4.5	5.1	5.9	6.8
Brookings, Oreg.	(1)	(1)	10.7	9.8	Brunswick, Ga.	(1)	(1)	(1)	6.7
Cape Charles-Oyster, Va.	18.0	10.8	10.8	9.7	Seattle, Wash.	(1)	6.2	6.3	6.6
Darien-Bellville, Ga.	(1)	(1)	(1)	9.0	Oriental-Vandemere, N.C.	(1)	(1)	(1)	6.6
Charleston-Mt. Pleasant, S.C.	(1)	(1)	(1)	8.1	Chincoteague, Va.	(1)	(1)	6.1	6.5
Freeport, Tex.	15.0	17.0	16.0	8.0	Anacortes-La Conner, Wash.	(1)	(1)	6.1	6.4

(1) Not available.

*Record. Record quantity 848.2 million lb landed in San Pedro, Calif., 1950.

Note:--Data for some ports are estimated. To avoid disclosure of private enterprise, the following ports were not included: Port Moller, Alaska; Fernandina Beach, Fla.; Intercoastal City and Morgan City, La.; Biloxi, Miss.; Port Monmouth-Belford, N.J.; Southport-Calabash, N.C.; and Reedville, Va.

U.S. COMMERCIAL LANDINGS

U.S. COMMERCIAL LANDINGS OF FISH AND SHELLFISH, 1970-79 (1)

Year	Landings for human food		Landings for industrial products (2)		Total	
	Million pounds	Million dollars	Million pounds	Million dollars	Million pounds	Million dollars
1970.	2,537	565	2,380	48	4,917	613
1971.	2,441	604	2,577	47	5,018	651
1972.	2,435	702	2,371	46	4,806	748
1973.	2,398	836	2,460	101	4,858	937
1974.	2,496	844	2,471	88	4,967	932
1975	2,465	904	2,412	73	4,877	977
1976	2,775	1,257	2,613	92	5,388	1,349
1977 (3).	2,900	1,404	2,298	111	5,198	1,515
1978 (3).	3,177	1,733	2,851	121	6,028	1,854
1979 (3).	*3,318	2,093	*2,949	141	*6,267	2,234

(1) Statistics on landings are shown in round weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are shown in weight of meats, excluding the shell.
(2) Processed into meal, oil, fish solubles, and shell products, and used as bait or animal food.
(3) Data are preliminary.

Note:--Data do not include landings by U.S.-flag vessels at Puerto Rico or other ports outside the 50 States. Data do not include products of aquaculture, except oysters and clams.
*Record.

DISPOSITION OF U.S. COMMERCIAL LANDINGS, 1978 AND 1979

End Use	1978		1979	
	Million pounds	Percent	Million pounds	Percent
Fresh and frozen:				
For human food.	2,134	35.4	2,268	36.2
For bait and animal food. .	103	1.7	126	2.0
Total.	2,237	37.1	2,394	38.2
Canned:				
For human food.	991	16.4	956	15.3
For bait and animal food. .	108	1.8	90	1.4
Total.	1,099	18.2	1,046	16.7
Cured for human food.	52	.9	94	1.5
Reduction to meal, oil, etc..	2,640	43.8	2,733	43.6
Grand total.	6,028	100.0	6,267	100.0

Note:--Data are preliminary.

DISPOSITION OF U.S. COMMERCIAL LANDINGS, BY MONTHS, 1979

Month	Landings for human food		Landings for industrial products (1)		Total	
	Million pounds	Percent	Million pounds	Percent	Million pounds	Percent
January	145	4.4	39	1.3	184	2.9
February	127	3.8	6	.2	133	2.1
March	214	6.5	13	.4	227	3.6
April	249	7.5	96	3.3	345	5.5
May	286	8.6	399	13.5	685	10.9
June	284	8.6	592	20.1	876	14.1
July	432	13.0	539	18.3	971	15.5
August	555	16.7	564	19.1	1,119	17.9
September	344	10.4	284	9.6	628	10.0
October	302	9.1	264	9.0	566	9.0
November	210	6.3	50	1.7	260	4.1
December	170	5.1	103	3.5	273	4.4
Total	*3,318	100.0	*2,949	100.0	*6,267	100.0

(1) Processed into meal, oil, solubles, and shell products, and used as bait and animal food.
*Record.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1979 (1)

Species	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		Total	
	0 to 3 miles (2)		3 to 200 miles					
Fish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Alewives:								
Atlantic and Gulf.	9,672	637	19	2	-	-	9,691	639
Great Lakes. . . .	23,871	501	-	-	-	-	23,871	501
Anchovies.	12,001	6,720	105,402	3,175	-	-	117,403	9,895
Bluefish	9,704	1,600	3,503	597	-	-	13,207	2,197
Bonito	1,375	305	1,470	259	2,597	502	5,442	1,066
Butterfish	946	378	5,107	1,749	-	-	6,053	2,127
Cod:								
Atlantic	5,680	1,726	93,672	26,906	-	-	99,352	28,632
Pacific.	6,773	1,488	4,416	895	1,193	256	12,382	2,639
Croaker.	17,854	3,710	10,186	2,071	-	-	28,040	5,781
Cusk	145	32	3,591	760	-	-	3,736	792
Flounders:								
Atlantic and Gulf:								
Blackback. . . .	6,154	2,159	18,656	7,709	-	-	24,810	9,868
Fluke.	7,101	4,017	23,620	11,960	-	-	30,721	15,977
Yellowtail . . .	5,470	2,875	29,776	14,804	-	-	35,246	17,679
Other.	5,946	2,590	44,308	19,796	-	-	50,254	22,386
Pacific.	10,962	2,620	53,101	13,222	4,194	993	68,257	16,835
Total.	35,633	14,261	169,461	67,491	4,194	993	209,288	82,745
Groupers	350	287	7,319	5,710	487	427	8,156	6,424
Haddock.	421	169	41,461	17,536	-	-	41,882	17,705
Hake:								
Pacific (whiting).	10,050	904	20,700	1,153	-	-	30,750	2,057
Red.	1,268	175	5,772	778	-	-	7,040	953
White.	693	85	8,188	1,385	-	-	8,881	1,470
Halibut.	10,058	16,266	11,327	18,352	-	-	21,385	34,618
Herring, sea:								
Atlantic	122,336	6,961	21,036	1,434	-	-	143,372	8,395
Pacific.	65,658	38,351	-	-	-	-	65,658	38,351
Jack mackerel. . . .	4,896	352	30,254	2,173	-	-	35,150	2,525
Lingcod.	609	142	4,706	1,138	1,828	393	7,143	1,673
Mackerel:								
Atlantic	2,140	661	2,323	398	-	-	4,463	1,059
King	863	654	3,996	2,849	-	-	4,859	3,503
Pacific.	2,207	157	56,798	4,051	-	-	59,005	4,208
Spanish.	3,259	703	3,191	728	-	-	6,450	1,431

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1979 (1) - Continued

Species	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		Total	
	0 to 3 miles (2)		3 to 200 miles					
Fish - continued:	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Menhaden:								
Atlantic	886,071	36,000	167	4	-	-	886,238	36,004
Gulf	1,455,138	62,412	263,105	11,014	-	-	1,718,243	73,426
Total	2,341,209	98,412	263,272	11,018	-	-	2,604,481	109,430
Mullet	25,725	4,770	161	47	-	-	25,886	4,817
Ocean perch:								
Atlantic	48	9	33,991	7,155	-	-	34,039	7,164
Pacific	105	21	5,986	1,209	1,195	257	7,286	1,487
Pollock:								
Atlantic	1,709	271	33,837	6,386	-	-	35,546	6,657
Alaska	4,156	341	863	69	606	61	5,625	471
Rockfishes	5,181	1,199	51,810	11,715	11,019	2,371	68,010	15,285
Sablefish	4,521	1,807	43,258	12,809	662	211	48,441	14,827
Salmon, Pacific:								
Chinook or king	22,491	36,301	10,517	20,969	-	-	33,008	57,270
Chum or keta	45,784	26,363	-	-	-	-	45,784	26,363
Pink	226,830	92,059	-	-	-	-	226,830	92,059
Red or sockeye	190,727	180,404	-	-	-	-	190,727	180,404
Silver or coho	26,977	33,162	12,742	23,425	48	93	39,767	56,680
Total	512,809	368,289	23,259	44,394	48	93	536,116	412,776
Scup or porgy	9,687	3,461	10,785	3,758	-	-	20,472	7,219
Sea bass:								
Black	434	362	4,097	2,219	-	-	4,531	2,581
White	262	308	89	104	549	644	900	1,056
Sea trout:								
Gray	15,542	3,788	15,037	2,494	-	-	30,579	6,282
Spotted	4,440	3,143	15	8	-	-	4,455	3,151
White	513	135	809	148	-	-	1,322	283
Sharks:								
Dogfish	10,330	1,008	8,900	664	89	9	19,319	1,681
Other	1,297	629	1,686	761	342	171	3,325	1,561
Snapper:								
Red	122	206	4,374	6,368	445	468	4,941	7,042
Other	405	403	2,369	2,490	80	103	2,854	2,996
Striped bass	3,136	3,864	356	377	-	-	3,492	4,241

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1979 (1) - Continued

Species	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		Total	
	0 to 3 miles (2)		3 to 200 miles					
Fish - continued:	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Tuna:								
Albacore	-	-	14,203	9,191	1,239	797	15,442	9,988
Bigeye	-	-	579	1,264	2,355	1,037	2,934	2,301
Bluefin	303	467	4,005	3,802	11,699	5,003	16,007	9,272
Little	66	33	60	23	-	-	126	56
Skipjack	73	40	6,551	3,406	188,188	68,162	194,812	71,608
Yellowfin	229	232	2,145	2,127	275,687	119,509	278,061	121,868
Unclassified	1	(3)	27	14	742	74	770	88
Total	672	772	27,570	19,827	479,910	194,582	508,152	215,181
Warsaw	3	2	80	41	-	-	83	43
Whiting	7,216	1,142	28,048	4,628	-	-	35,264	5,770
Wolffish	153	22	1,377	201	-	-	1,530	223
Other marine finfishes:								
Atlantic and Gulf	121,914	24,133	73,817	23,651	-	-	195,731	47,784
Pacific	10,192	2,900	2,273	2,153	317	145	12,782	5,198
Other freshwater fishes	88,247	24,167	-	-	-	-	88,247	24,167
Total fish	3,518,490	642,789	1,252,017	326,284	505,561	201,686	5,276,068	1,170,759
Shellfish et al.								
Clams:								
Hard	12,058	33,720	-	-	-	-	12,058	33,720
Ocean quahog	3,095	966	31,629	9,267	-	-	34,724	10,233
Soft	8,585	13,776	-	-	-	-	8,585	13,776
Surf	5,842	2,288	29,070	16,985	-	-	34,912	19,273
Other	1,771	2,203	-	-	-	-	1,771	2,203
Total	31,351	52,953	60,699	26,252	-	-	92,050	79,205
Crabs:								
Blue, hard	152,770	31,410	60	14	-	-	152,830	31,424
Dungeness	34,555	27,665	4,135	3,354	-	-	38,690	31,019
King	30,918	29,710	123,671	118,840	-	-	154,589	148,550
Snow (tanner)	17,095	9,167	114,298	55,667	-	-	131,393	64,834
Other	5,380	3,977	6,302	4,439	-	-	11,682	8,416
Total	240,718	101,929	248,466	182,314	-	-	489,184	284,243

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1979 (1) - Continued

Species	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		Total	
	0 to 3 miles (2)		3 to 200 miles					
Shellfish et al. - continued:	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Lobsters:								
American	31,848	60,423	5,336	11,875	-	-	37,184	72,298
Spiny	1,320	2,886	4,291	8,378	690	1,501	6,301	12,765
Oysters	48,081	65,612	-	-	-	-	48,081	65,612
Scallops:								
Bay	1,774	6,798	-	-	-	-	1,774	6,798
Calico	-	-	863	1,846	-	-	863	1,846
Sea	772	2,551	30,694	100,655	-	-	31,466	103,206
Shrimp:								
New England	164	60	908	278	-	-	1,072	338
South Atlantic	15,640	32,397	16,655	32,876	-	-	32,295	65,273
Gulf (4)	84,385	131,555	117,493	237,492	18,606	31,702	220,484	400,749
Pacific Coast	60,263	14,050	35,756	14,250	-	-	96,019	28,300
Other	6	20	-	-	-	-	6	20
Total	160,458	178,082	170,812	284,896	18,606	31,702	349,876	494,680
Squid:								
Atlantic	6,849	2,541	6,543	1,732	-	-	13,392	4,273
Pacific	33,289	3,492	2,008	211	-	-	35,297	3,703
Other	42,167	13,388	1,045	804	-	-	43,212	14,192
Total shellfish et al.	598,627	490,655	530,757	618,963	19,296	33,203	1,148,680	1,142,821
Grand total	4,117,117	1,133,444	1,782,774	945,247	524,857	234,889	6,424,748	2,313,580

(1) Landings are reported in round (live) weight for all items, except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell).

(2) Includes all landings in Great Lakes and other inland waters.

(3) Less than 500 lb or $500.

(4) Includes shrimp landed at Gulf Coast and foreign ports.

Note:--Data are preliminary; they include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States; therefore, they will not agree with "U.S. Commercial Landings " table. Data do not include production of aquaculture, except oysters and clams.

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. FISHERY CONSERVATION ZONE (FCZ), BY COUNTRY AND AREA, 1978
(Preliminary)

Country and area	North Atlantic (1)	California, Oregon, and Washington	Gulf of Alaska	Bering Sea and Aleutian Islands	Total Alaska	Hawaii and Pacific Islands	Grand total
	Metric tons, round weight						
North America:							
Canada	38,687.0	0.5	2,533.3	88.7	2,622.0	-	41,309.5
Mexico	3,954.0	-	-	-	-	-	3,954.0
Europe:							
Bulgaria	11.2	-	-	-	-	-	11.2
EEC, Italy	5,273.0	-	-	-	-	-	5,273.0
Poland	-	27,254.0	1,266.0	-	1,266.0	-	28,520.0
Romania	175.0	-	-	-	-	-	175.0
Spain	13,699.9	-	-	-	-	-	13,699.9
USSR	17,952.2	71,484.0	62,636.3	220,985.1	283,621.4	-	373,057.6
Asia:							
China, Taiwan	-	-	-	3,227.1	3,227.1	-	3,227.1
Japan	7,134.9	-	66,271.9	1,110,597.5	1,176,869.4	416.0	1,184,420.3
Republic of Korea	-	-	34,920.9	65,775.3	100,696.2	-	100,696.2
Grand total	86,887.2	98,738.5	167,628.4	1,400,673.7	1,568,302.1	416.0	1,754,343.8

(1) Cape Hatteras northward.

Note:--Excludes tunas. Also excludes salmon caught incidentally and returned to the sea. Beginning June 4, 1978, Canadian authorities excluded almost all United States fishing vessels from Canadian waters, and United States authorities excluded almost all Canadian fishing vessels from United States waters. Halibut fishing of both countries in the Pacific Ocean continued under the United States-Canada Halibut Convention. Fishing also continued by vessels of both nations in boundary regions in the Atlantic and Pacific often referred to as "disputed zones."

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. FISHERY CONSERVATION ZONE (FCZ), BY COUNTRY AND AREA, 1979
(Preliminary)

Country and area	North Atlantic (1)	California, Oregon, and Washington	Gulf of Alaska	Bering Sea and Aleutian Islands	Total Alaska	Hawaii and Pacific Islands	Grand total
	Metric tons, round weight						
North America:							
Canada	-	-	1,085.9	-	1,085.9	-	1,085.9
Mexico	8,085.2	-	10,397.3	-	10,397.3	-	18,482.5
Europe:							
EEC:							
Ireland	207.3	-	-	-	-	-	207.3
Italy	6,690.1	-	-	-	-	-	6,690.1
Poland	171.5	18,613.0	19,744.5	18,283.2	38,027.7	-	56,812.2
Romania	28.5	-	-	-	-	-	28.5
Spain	11,540.6	-	-	-	-	-	11,540.6
USSR	4,256.6	98,661.4	30,916.9	148,656.0	179,572.9	-	282,490.9
Asia:							
China, Taiwan	-	-	-	2,013.3	2,013.3	-	2,013.3
Japan	7,711.7	-	71,608.2	1,029,576.9	1,101,185.1	217.8	1,109,114.6
Republic of Korea	-	-	29,689.2	97,667.8	127,357.0	-	127,357.0
Grand total	38,691.5	117,274.4	163,442.0	1,296,197.2	1,459,639.2	217.8	1,615,822.9

(1) Cape Hatteras northward.

Note:--Excludes tunas. Also excludes salmon, which was caught incidentally to other species, and returned to the sea. Beginning June 4, 1978, Canadian authorities excluded almost all United States fishing vessels from Canadian waters, and United States authorities excluded almost all Canadian fishing vessels from United States waters. In the Pacific, halibut fishing continued under the United States-Canada Halibut Convention. In a 1979 groundfish agreement, Canada, in return for the right to catch a specified amount of halibut in the United States FCZ, granted United States fishermen the right to catch a specified amount of groundfish in the Canadian fishery zone. In the Atlantic, fishing continued by vessels of both nations in a boundary region often referred to as the "disputed zone."

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. FISHERY CONSERVATION ZONE (FCZ), BY SPECIES AND AREA, 1978
(Preliminary)

Item	North Atlantic (1)	Washington, Oregon, and California	Gulf of Alaska	Bering Sea and Aleutian Islands	Total Alaska	Hawaii and Pacific Islands	Total
Finfish			Metric tons, round weight				
Alfonsins and armorheads.	-	-	-	-	-	416.0	416.0
Atka mackerel	-	-	19,585.2	24,225.2	43,810.4	-	43,810.4
Butterfish.	1,324.2	-	-	-	-	-	1,324.2
Cod:							
Atlantic.	9,503.0	-	-	-	-	-	9,503.0
Pacific	-	-	11,368.5	46,786.9	58,155.4	-	58,155.4
Flounders:							
Yellowtail.	58.0	-	-	-	-	-	58.0
Atlantic, other	292.0	-	-	-	-	-	292.0
Yellowfin sole.	-	-	-	110,312.1	110,312.1	-	110,312.1
Pacific, other.	-	4.0	14,313.9	125,497.8	139,811.7	-	139,815.7
Haddock	10,657.0	-	-	-	-	-	10,657.0
Hake:							
Atlantic:							
Red	2,136.0	-	-	-	-	-	2,136.0
Silver (whiting). . .	14,353.8	-	-	-	-	-	14,353.8
Pacific (whiting) . . .	-	96,827.0	-	-	-	-	96,827.0
Halibut	-	-	2,533.3	88.7	2,622.0	-	2,622.0
Herring, river (alewives)	29.9	-	-	-	-	-	29.9
Herring, sea, Pacific . .	-	-	-	8,433.6	8,433.6	-	8,433.6
Jack mackerel	-	887.0	-	-	-	-	887.0
Mackerel, Atlantic. . . .	329.6	-	-	-	-	-	329.6
Ocean perch:							
Atlantic (redfish). . .	92.0	-	-	-	-	-	92.0
Pacific	-	-	8,169.3	7,508.0	15,677.3	-	15,677.3
Rockfishes, Pacific, other	-	757.5	1,895.9	-	1,895.9	-	2,653.4
Pollocks:							
Alaska.	-	-	96,327.3	977,749.3	1,074,076.6	-	1,074,076.6
Atlantic.	4,756.0	-	-	-	-	-	4,756.0
Sablefish	-	100.0	7,127.1	1,959.9	9,087.0	-	9,187.0
Other finfish	4,297.7	163.0	5,986.8	71,559.3	77,546.1	-	820,068.0
Total fish	47,829.2	98,738.5	167,307.3	1,374,120.8	1,541,428.1	416.0	1,688,411.8
Shellfish et al.							
Crabs, snow (tanner). . .	-	-	-	14,961.9	14,961.9	-	14,961.9
Lobster, American	269.0	-	-	-	-	-	269.0
Scallops, sea (meats) . .	12,123.0	-	-	-	-	-	12,123.0
Snails (meats).	-	-	-	2,184.4	2,184.4	-	2,184.4
Squid:							
Atlantic:							
Short-finned.	17,310.4	-	-	-	-	-	17,310.4
Long-finned	9,355.6	-	-	-	-	-	9,355.6
Unclassified.	-	-	321.1	-	321.1	-	321.1
Pacific	-	-	-	9,406.6	9,406.6		9,406.6
Total shellfish . .	39,058.0	-	321.1	26,552.9	26,874.0	-	65,932.0
Grand total	86,887.2	98,738.5	167,628.4	1,400,673.7	1,568,302.1	416.0	1,754,343.8

(1) Cape Hatteras northward. Note:--Excludes tunas. Also excludes salmon caught incidentally and returned to sea.

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. FISHERY CONSERVATION ZONE (FCZ), BY SPECIES AND AREA, 1979
(Preliminary)

Item	North Atlantic (1)	Washington, Oregon, and California	Gulf of Alaska	Bering Sea and Aleutian Islands	Total Alaska	Hawaii and Pacific Islands	Total
	Metric tons, round weight						
Finfish							
Alfonsins and armorheads.	-	-	-	-	-	217.8	217.8
Atka mackerel	-	-	10,917.8	23,265.0	34,182.8	-	34,182.8
Butterfish.	844.4	-	-	-	-	-	844.4
Cod:							
Atlantic.	6,390.0	-	-	-	-	-	6,390.0
Pacific	-	-	12,529.9	41,384.7	53,914.6	-	53,914.6
Flounders:							
Atlantic.	89.0	-	-	-	-	-	89.0
Yellowfin sole.	-	-	-	96,093.3	96,093.3	-	96,093.3
Pacific, other.	-	14.2	13,427.4	89,885.6	103,313.0	-	103,327.2
Haddock	5,439.0	-	-	-	-	-	5,439.0
Hake:							
Atlantic:							
Red	976.9	-	-	-	-	-	976.9
Silver (whiting). . .	4,882.1	-	-	-	-	-	4,882.1
Pacific (whiting) . . .	-	114,909.4	-	-	-	-	114,909.4
Halibut	-	-	1,085.9		1,085.9	-	1,085.9
Herring, river (alewives)	11.9	-	-	-	-	-	11.9
Herring, sea, Pacific . .	-	-	-	7,344.9	7,344.9	-	7,344.9
Jack mackerel	-	1,026.0	-	-	-	-	1,026.0
Mackerel, Atlantic. . . .	64.5	-	-	-	-	-	64.5
Ocean perch:							
Atlantic.	26.0	-	-	-	-	-	26.0
Pacific	-	54.1	9,684.2	7,182.4	16,866.6	-	16,920.7
Pollock:							
Atlantic.	3,032.0	-	-	-	-	-	3,032.0
Alaska.	-	-	103,068.2	941,664.9	1,044,733.1	-	1,044,733.1
Rockfishes, Pacific, other	-	884.6	1,399.0	-	1,399.0	-	2,283.6
Sablefish	-	198.4	6,829.5	2,173.6	9,003.1	-	9,201.5
Other finfish	3,296.3	187.7	4,073.9	64,695.1	68,769.0	-	71,358.4
Total fish	25,052.1	117,274.4	163,015.8	1,273,689.5	1,436,705.3	217.8	1,579,249.6
Shellfish et al.							
Crabs, snow (tanner). . .	-	-	-	14,953.5	14,953.5	-	14,953.5
Scallops, sea	9,204.0	-	-	-	-	-	9,204.0
Snails (meats).	-	-	-	537.2	537.2	-	537.2
Squid:							
Atlantic:							
Short-finned.	16,426.4	-	-	-	-	-	16,426.4
Long-finned	13,183.0	-	-	-	-	-	13,183.0
Pacific	-	-	426.2	7,017.0	7,443.2	-	7,443.2
Total shellfish . .	38,813.4	-	426.2	22,507.7	22,933.9	-	61,747.3
Grand total	63,865.5	117,274.4	163,442.0	1,296,197.2	1,459,639.2	217.8	1,640,996.9

(1) Cape Hatteras northward. Note:--Excludes tunas. Also excludes salmon caught incidentally and returned to sea.

U.S. FISHERY CONSERVATION ZONE

FOREIGN CATCH

NORTH ATLANTIC: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1977-79
(Preliminary)

Country and species	1977	1978	1979
	Metric tons, round weight		
Bulgaria:			
Hake:			
Red	25.0	-	-
Silver (whiting)	1,419.0	0.2	-
Mackerel, Atlantic	3,110.0	11.0	-
Other finfish	401.0	-	-
Squid:			
Short-finned	52.0	-	-
Long-finned	8.0	-	-
Total	5,015.0	11.2	-
Canada: (1)			
Cod, Atlantic	6,279.0	9,503.0	6,390
Flounders (including yellowtail)	38.0	58.0	15.0
Flounders, other	109.0	292.0	74.0
Haddock	2,935.0	10,657.0	5,439.0
Herring, sea	384.0	-	-
Mackerel, Atlantic	510.0	-	-
Ocean perch, Atlantic	204.0	92.0	26.0
Pollock, Atlantic	3,414.0	4,756.0	3,032.0
Other finfish	746.0	937.0	994.0
Lobster, American	242.0	269.0	-
Scallops, sea (meats)	13,044.0	12,123.0	9,204.0
Squid:			
Short-finned	5.0	-	-
Long-finned	18.0	-	-
Total	27,928.0	38,687.0	25,174.0
Cuba:			
Butterfish	110.0	-	-
Hake:			
Red	38.0	-	-
Silver (whiting)	269.0	-	-
Herring, sea	153.0	-	-
Mackerel, Atlantic	737.0	-	-
Other finfish	240.0	-	-
Squid:			
Short-finned	6.0	-	-
Long-finned	28.0	-	-
Total	1,581.0	-	-
European Economic Community:			
Ireland:			
Other finfish	-	-	.1
Squid, short-finned	-	-	207.2
Total	-	-	207.3
Italy:			
Butterfish	107.0	354.0	137.5
Hake:			
Red	5.0	50.0	188.3
Silver (whiting)	47.0	612.0	600.1
Mackerel, Atlantic	395.0	65.0	28.4
Other finfish	659.0	695.0	600.6
Squid:			
Short-finned	1,948.0	2,131.0	3,070.3
Long-finned	2,243.0	1,366.0	2,064.9
Total	5,404.0	5,273.0	6,690.1

(Continued)

FOREIGN CATCH

NORTH ATLANTIC: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1977-79 - Continued
(Preliminary)

Country and species	1977	1978	1979
	Metric tons, round weight		
German Democratic Republic:			
Mackerel, Atlantic	7,981.0	-	-
Other finfish	75.0	-	-
Squid, long-finned	9.0	-	-
Total	8,065.0	-	-
Japan:			
Butterfish	1,741.0	651.2	270.7
Hake:			
Red	-	8.7	12.8
Silver (whiting)	38.0	274.5	701.3
Herring:			
River	-	1.6	-
Sea	1.0	-	-
Mackerel, Atlantic	17.0	8.6	9.2
Other finfish	470.0	137.1	321.8
Squid:			
Short-finned	4,876.0	3,744.0	3,211.8
Long-finned	7,834.0	2,309.2	3,184.1
Total	14,977.0	7,134.9	7,711.7
Mexico:			
Butterfish	-	93.0	342.6
Hake:			
Red	-	1.0	40.2
Silver (whiting)	-	4.0	110.1
Herring, river	-	-	.4
Mackerel, Atlantic	-	1.0	11.7
Other finfish	-	33.0	467.4
Squid:			
Short-finned	-	2,769.0	3,539.5
Long-finned	-	1,053.0	3,573.3
Total	-	3,954.0	8,085.2
Poland:			
Butterfish	280.0	-	-
Herring, sea	119.0	-	-
Mackerel, Atlantic	17,167.0	-	-
Other finfish	1,641.0	-	-
Squid:			
Short-finned	656.0	-	171.5
Long-finned	232.0	-	-
Total	20,095.0	-	171.5
Romania:			
Butterfish	16.0	56.0	1.7
Hake:			
Red	-	-	.1
Silver (whiting)	12.0	20.0	15.5
Mackerel, Atlantic	8.0	10.0	-
Other finfish	9.0	22.0	7.6
Squid:			
Short-finned	1,107.0	50.0	.7
Long-finned	-	17.0	2.9
Total	1,152.0	175.0	28.5

(Continued)

FOREIGN CATCH

NORTH ATLANTIC: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1977-79 - Continued
(Preliminary)

Country and species	1977	1978	1979
	Metric tons, round weight		
Spain:			
Butterfish	105.0	156.0	89.5
Hake:			
Red	-	3.0	65.3
Silver (whiting)	100.0	53.0	380.3
Herring, river	-	8.0	-
Mackerel, Atlantic	82.0	28.0	5.1
Other finfish	531.0	265.5	425.2
Squid:			
Short-finned	7,935.0	8,583.0	6,225.3
Long-finned	5,836.0	4,603.4	4,349.9
Total	14,589.0	13,699.9	11,540.6
USSR:			
Butterfish	419.0	14.0	2.4
Hake:			
Red	5,155.0	2,073.3	670.2
Silver (whiting)	53,145.0	13,390.1	3,074.8
Herring, sea	1,492.0	-	-
Herring, river	-	20.3	11.5
Mackerel, Atlantic	22,590.0	206.0	10.1
Other finfish	11,379.0	2,208.1	479.6
Squid:			
Short-finned	8,003.0	33.4	.1
Long-finned	7.0	7.0	7.9
Total	102,190.0	17,952.2	4,256.6
Grand total	200,996.0	86,887.2	63,865.5

(1) See note on page 13. Note:--Excludes tunas.

FOREIGN CATCH

WASHINGTON, OREGON, CALIFORNIA, AND WESTERN PACIFIC:
FOREIGN CATCH, BY COUNTRY AND SPECIES, 1977-79
(Preliminary)

Country and species	1977	1978	1979
	Metric tons, round weight		
Canada:			
Halibut	0.7	-	-
Lingcod	7.3	-	-
Rockfishes	8.2	0.5	-
Salmon	399.1	-	-
Other finfish	.5	-	-
Total	415.8	.5	-
Poland:			
Flounders	1.0	2.0	2.0
Hake, Pacific (whiting)	17,654.0	26,721.0	18,072.6
Jack mackerel	365.0	214.0	315.9
Ocean perch, Pacific	-	-	8.3
Rockfishes	290.0	205.0	140.9
Sablefish	7.0	43.0	41.3
Other finfish	35.0	69.0	32.0
Total	18,352.0	27,254.0	18,613.0
USSR:			
Alfonsins and armorheads	22.0	-	-
Flounders	11.0	2.0	12.2
Hake, Pacific (whiting)	99,938.0	70,106.0	96,836.8
Jack mackerel	2,432.0	673.0	710.1
Ocean perch, Pacific	-	-	45.8
Rockfishes	520.0	552.0	743.7
Sablefish	262.0	57.0	157.1
Other finfish	286.0	94.0	155.7
Total	103,471.0	71,484.0	98,661.4
Grand total	122,238.8	98,738.5	117,274.4

See note on page 13.

FOREIGN CATCH

GULF OF ALASKA: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1977-79
(Preliminary)

Country and species	1977	1978	1979
	- - - - - - - Metric tons, round weight - - - - - - -		
Canada:			
Flounders (1)	0.9	-	-
Halibut	2,171.8	2,533.3	1,085.9
Lingcod	.5	-	-
Rockfishes	1.8	-	-
Sablefish	1.8	-	-
Salmon	.6	-	-
Turbot	.9	-	-
Total	2,178.3	2,533.3	1,085.9
Japan:			
Atka mackerel	-	1,135.7	544.5
Cod, Pacific	1,445.0	8,845.8	9,823.4
Flounders (1)	18,124.0	13,809.4	12,331.7
Ocean perch, Pacific	-	4,547.6	7,334.0
Pollock, Alaska	42,415.0	26,093.0	32,114.2
Rockfishes	21,566.0	1,277.2	1,068.5
Sablefish	13,886.0	6,458.3	5,866.0
Other finfish	3,400.0	3,919.1	2,265.8
Squid, unclassified	-	185.8	260.6
Total	100,836.0	66,271.9	71,608.7
Mexico:			
Atka mackerel	-	-	36.3
Cod, Pacific	-	-	939.3
Flounders (1)	-	-	113.1
Ocean perch, Pacific	-	-	457.0
Pollock, Alaska	-	-	8,676.9
Rockfishes	-	-	6.6
Sablefish	-	-	54.7
Other finfish	-	-	100.8
Squid, unclassified	-	-	12.6
Total	-	-	10,397.3
Poland:			
Atka mackerel	209.0	-	.4
Cod, pacific	-	13.6	126.9
Flounders (1)	-	12.6	18.9
Ocean perch, Pacific	-	3.5	5.3
Pollock, Alaska	1,256.0	1,226.5	19,551.2
Rockfishes	-	8.8	18.7
Other finfish	-	-	14.0
Squid, unclassified	-	1.0	9.1
Total	1,465.0	1,266.0	19,744.5
Republic of Korea:			
Atka mackerel	-	63.0	74.6
Cod, Pacific	-	1,369.0	806.7
Flounders (1)	-	295.5	597.2
Ocean perch, Pacific	-	3,048.7	821.7
Pollock, Alaska	36,015.0	27,051.9	25,549.2
Rockfishes	601.0	608.7	183.5
Sablefish	1,598.0	664.8	758.4
Other finfish	100.0	1,686.6	754.7
Squid, unclassified	-	132.7	143.2
Total	38,314.0	34,920.9	29,689.2

(Continued)

GULF OF ALASKA: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1977-79 - Continued
(Preliminary)

Country and species	1977	1978	1979
	Metric tons, round weight		
USSR:			
Atka mackerel	19,220.0	18,386.5	10,262.0
Cod, Pacific	1,010.0	1,140.1	833.6
Flounders (1)	464.0	196.4	366.5
Ocean perch, Pacific	-	569.5	1,066.2
Pollock, Alaska	41,588.0	41,955.9	17,176.7
Rockfishes	1,829.0	1.2	121.7
Sablefish	4.0	4.0	150.4
Other finfish	1,070.0	381.1	938.6
Squid, unclassified	-	1.6	1.2
Total	65,185.0	62,636.3	30,916.9
Grand total	207,978.3	167,628.4	163,442.0

(1) May include yellowfin sole. See note on page 13.

U.S. FISHERY CONSERVATION ZONE

FOREIGN CATCH

BERING SEA AND ALEUTIAN ISLANDS: FOREIGN CATCH
BY COUNTRY AND BY SPECIES, 1977-79
(Preliminary)

Country and species	1977	1978	1979
	Metric tons, round weight		
Canada:			
Halibut	100.0	88.7	-
China, Taiwan:			
Atka mackerel	-	0.3	-
Cod, Pacific	-	70.4	39.4
Flounders:			
Yellowfin sole	-	1.4	3.0
Other	-	68.3	19.2
Ocean perch, Pacific	-	6.6	2.6
Pollock, Alaska	1,346.0	3,039.9	1,928.6
Sablefish	53.0	5.2	6.3
Other finfish	103.0	-	-
Squid, unclassified	-	35.0	14.2
Total	1,502.0	3,227.1	2,013.3
Japan:			
Atka mackerel	-	1,531.0	1,657.4
Cod, Pacific	36,188.0	45,015.0	35,480.3
Flounders:			
Yellowfin sole	58,702.0	59,737.3	53,482.9
Other	56,740.0	87,785.9	75,776.2
Herring, sea	5,592.0	2,315.3	1,707.8
Ocean perch, Pacific	7,250.0	6,776.0	6,875.1
Pollock, Alaska	782,419.0	821,306.5	779,003.6
Sablefish	4,491.0	1,805.2	1,691.0
Other finfish	39,926.0	58,040.7	52,672.7
Crabs, snow (tanner)	12,471.0	14,961.9	14,953.5
Snails (meats)	404.0	2,184.4	537.2
Squid, unclassified	8,316.0	9,138.3	5,739.2
Total	1,012,499.0	1,110,597.5	1,029,576.9
Poland:			
Atka mackerel	-	-	1.3
Cod, Pacific	-	-	16.5
Flounders, other	-	-	1.5
Ocean perch, Pacific	-	-	1.9
Pollock, Alaska	-	-	18,229.9
Sablefish	-	-	1.8
Other finfish	-	-	5.8
Squid, unclassified	-	-	24.5
Total	-	-	18,283.2
Republic of Korea:			
Atka mackerel	-	71.9	1,329.0
Cod, Pacific	-	1,141.1	3,232.8
Flounders:			
Yellowfin sole	-	41.2	1,348.7
Other	-	264.7	1,960.6
Herring, sea	-	11.9	107.6
Ocean perch, Pacific	-	483.1	281.2
Pollock, Alaska	39,785.0	60,689.1	83,787.7
Sablefish	90.0	149.3	425.3
Other finfish	1,968.0	2,712.5	3,962.2
Squid, unclassified	-	210.5	1,232.7
Total	41,843.0	65,775.3	97,667.8

(Continued)

FOREIGN CATCH

BERING SEA AND ALEUTIAN ISLANDS: FOREIGN CATCH BY COUNTRY AND BY SPECIES, 1977-79 - Continued
(Preliminary)

Country and species	1977	1978	1979
	Metric tons, round weight		
USSR:			
Atka mackerel	-	22,622.0	20,277.3
Cod, Pacific	278.0	560.4	2,615.7
Flounders:			
Yellowfin sole	284.0	50,532.2	41,258.7
Other	6,211.0	37,378.9	12,128.1
Herring, sea	13,144.0	6,106.4	5,529.5
Ocean perch, Pacific	876.0	242.3	21.6
Pollock, Alaska	65,002.0	92,713.8	58,715.1
Sablefish	-	0.2	49.2
Other finfish	26,246.0	10,806.1	8,054.4
Squid, unclassified	-	22.8	6.4
Total	112,041.0	220,985.1	148,656.0
Grand total	1,167,985.0	1,400,673.7	1,296,197.2

See note on page 13.

HAWAII AND PACIFIC ISLANDS
(WESTERN PACIFIC SEAMOUNT GROUNDFISH FISHERY)
BY SPECIES AND COUNTRY, 1977-79

Country and species	1977	1978	1979
	Metric tons, round weight		
Japan:			
Alfonsins and armorheads	-	416.0	217.8
USSR:			
Alfonsins and armorheads	22.0	-	-
Grand total	22.0	416.0	217.8

U.S. AND WORLD COMMERCIAL FISHERY CATCHES, 1950-78

Year	U.S. commercial catch and exvessel value			World commercial catch				
	Published by U.S. (excludes weight of mollusk shells)	Published by FAO (includes weight of mollusk shells)	Exvessel value	Freshwater	Marine			Grand total
					Peruvian anchovy	Other (1)	Total	
	Million metric tons		Billion dollars	Million metric tons				
	Live weight			Live weight				
1950	2.2	2.6	0.3	2.4	-	18.7	18.7	21.1
1951	2.0	2.4	.4	2.6	-	20.9	20.9	23.5
1952	2.0	2.4	.4	2.8	-	22.3	22.3	25.1
1953	2.0	2.7	.4	3.0	-	22.9	22.9	25.9
1954	2.2	2.8	.4	3.2	-	24.4	24.4	27.6
1955	2.2	2.8	.3	3.4	-	25.5	25.5	28.9
1956	2.4	3.0	.4	3.5	0.1	27.2	27.3	30.8
1957	2.2	2.8	.4	3.9	.3	27.5	27.8	31.7
1958	2.2	2.7	.4	4.5	.8	28.0	28.8	33.3
1959	2.3	2.9	.4	5.1	2.0	29.8	31.8	36.9
1960	2.2	2.8	.4	5.6	3.5	31.1	34.6	40.2
1961	2.4	2.9	.4	5.7	5.3	32.6	37.9	43.6
1962	2.4	3.0	.4	5.8	7.1	31.9	39.0	44.8
1963	2.2	2.8	.4	5.9	7.2	33.5	40.7	46.6
1964	2.1	2.6	.4	6.2	9.8	35.9	45.7	51.9
1965	2.2	2.7	.4	7.0	7.7	38.5	46.2	53.2
1966	1.9	2.5	.5	7.3	9.6	40.4	50.0	57.3
1967	1.8	2.4	.4	7.2	10.5	42.7	53.2	60.4
1968	1.9	2.5	.5	7.4	11.3	45.2	56.5	63.9
1969	1.9	2.5	.5	7.6	9.7	45.4	55.1	62.7
1970	2.2	2.9	.6	8.4	13.1	46.6	59.7	68.1
1971	2.3	3.0	.7	9.0	11.2	48.3	59.5	68.5
1972	2.2	2.8	.7	5.7	4.8	53.7	58.5	64.2
1973	2.2	2.9	.9	6.0	1.7	57.4	59.1	65.1
1974	2.3	2.9	.9	6.0	4.0	58.9	62.9	68.9
1975	2.2	2.9	1.0	6.4	3.3	58.9	62.2	68.6
1976	2.4	3.2	1.4	6.2	4.3	61.6	65.9	72.1
1977	2.4	3.1	1.5	6.3	.8	64.1	64.9	71.2
1978	2.7	3.5	1.9	6.1	1.2	65.1	66.3	72.4

(1) Includes diadromous (salmon and other anadromous fishes and catadromous fishes such as eels). There are 2,204.6 pounds in a metric ton.

Note:--There is a discontinuity of data in the world commercial catch of freshwater and marine fish prior to 1972 compared to data from 1972 to 1978 due to an FAO revision of the mainland Chinese catch as published in Yearbook of Fishery Statistics 1978, Vol. 46. The mainland Chinese freshwater fish catch was revised downward and the marine fish catch was revised upward.

Source:--Fishery Statistics of the United States, Fisheries of the United States, Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, various issues.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, MOLLUSKS, AND OTHER AQUATIC PLANTS AND ANIMALS (EXCEPT WHALES AND SEALS), BY COUNTRIES, 1974-78

Country	1974 (1)	1975 (1)	1976 (1)	1977 (1)	1978
	Thousand metric tons				
	Live weight				
Japan	10,805	10,524	10,662	10,763	10,752
USSR	9,257	9,975	10,134	9,352	8,930
China, mainland	(2)4,400	(2)4,500	(2)4,600	4,700	4,660
United States	(3)2,929	(3)2,920	(3)3,160	(3)3,085	(3)3,512
Peru	4,145	3,447	4,343	2,541	3,365
Norway	2,668	2,542	3,416	3,460	2,647
India	2,255	2,266	2,174	2,312	2,368
Republic of Korea	2,024	2,134	2,405	2,419	2,351
Thailand	1,516	1,553	1,660	2,190	2,264
Denmark	1,835	1,767	1,912	1,807	1,745
Chile	1,158	929	1,409	1,349	1,698
Indonesia	1,336	1,390	1,483	1,572	1,655
North Korea	(2)1,400	(2)1,500	(2)1,600	(2)1,600	(2)1,600
Iceland	945	996	992	1,378	1,579
Philippines	1,371	1,443	1,393	1,511	1,558
Canada	1,042	1,033	1,133	1,270	1,407
Spain	1,510	1,518	1,475	1,394	1,380
Vietnam	(2)1,014	(2)1,014	(2)1,014	(2)1,014	(2)1,014
Brazil	740	772	659	748	858
France	808	806	806	760	796
Mexico	442	499	572	670	752
Malaysia	526	474	517	619	685
Bangladesh	822	823	826	835	640
Republic of South Africa	648	642	640	603	628
Poland	679	801	750	655	571
England and Wales	534	497	520	525	548
Burma	434	485	502	519	540
Argentina	296	229	281	392	537
Nigeria	473	466	497	504	519
Scotland	538	468	503	468	479
Ecuador	174	263	315	476	(2)476
Namibia (S.W. Africa)	(2)840	(2)761	(2)574	(2)404	(2)418
Federal Rep. of Germany	526	442	454	432	412
Italy	426	406	420	380	402
Senegal	357	363	362	289	346
Netherlands	326	351	285	313	324
Faeroe Islands	246	286	342	310	318
All others	7,450	7,323	7,323	7,594	7,646
Total	68,895	68,608	72,113	71,213	72,380

(1) Revised.
(2) Data estimated by FAO.
(3) Includes the weight of clams, oysters, scallops, and other mollusk shells. This weight is not included in U.S. landings statistics shown elsewhere.

Note:--Statistics for mariculture, aquaculture, and other kinds of fish farming, seaweed harvesting, etc., are included in country totals. Statistics on quantities caught by recreational fishermen are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1978, Vol. 46.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, MOLLUSKS, AND OTHER AQUATIC PLANTS AND ANIMALS (EXCEPT WHALES AND SEALS), BY CONTINENTS, 1975-78

Continent	1975	1976	1977	1978
	Thousand metric tons			
	Live weight			
Asia	29,477	30,212	31,495	31,550
Europe	12,628	13,520	13,394	12,631
USSR	9,975	10,134	9,352	8,930
South America	5,919	7,293	5,805	7,277
North and Central America	4,919	5,452	5,660	6,273
Africa	4,488	4,312	4,137	4,298
Oceania	255	297	297	336
Other	947	893	1,073	1,085
Total	68,608	72,113	71,213	72,380

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1978, Vol. 46.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, MOLLUSKS, AND OTHER AQUATIC PLANTS AND ANIMALS (EXCEPT WHALES AND SEALS), BY MAJOR FISHING AREAS, 1975-78

Area	1975	1976	1977	1978
	Thousand metric tons			
	Live weight			
Marine areas:				
Pacific Ocean and adjacent areas	32,216	34,661	33,828	35,267
Atlantic Ocean and adjacent areas	25,805	26,927	26,117	25,969
Indian Ocean and adjacent areas	3,202	3,220	3,775	3,750
Total (1)	61,222	64,807	63,720	64,986
Inland waters:				
Asia	4,355	4,454	4,550	4,509
Africa	1,394	1,411	1,450	1,467
U.S.S.R.	944	770	771	732
Europe	282	290	307	295
South America	250	220	247	213
North and Central America	147	145	149	151
Oceania	14	15	19	25
Total (1)	7,386	7,306	7,493	7,393
Grand total (1)	68,608	72,113	71,213	72,380

(1) May not add to total because of rounding.

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1978, Vol. 46.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, MOLLUSKS, AND OTHER AQUATIC PLANTS AND ANIMALS (EXCEPT WHALES AND SEALS), BY SPECIES GROUPS, 1975-78

Species group	1975	1976	1977	1978
	Thousand metric tons			
	Live weight			
Herring, sardines, anchovies, et al.	13,739	15,146	12,891	13,917
Cods, hakes, haddocks, et al.	11,860	12,130	10,596	10,450
Miscellaneous marine and diadromous fishes	5,892	7,279	8,718	8,175
Jacks, mullets, sauries, et al.	6,407	6,197	6,320	6,100
Freshwater fishes	9,531	9,903	10,075	10,139
Redfish, basses, congers, et al.	5,064	5,022	5,367	5,216
Mollusks	3,816	4,060	4,184	4,384
Mackerels, snoeks, cutlassfishes, et al.	3,599	3,330	3,555	4,057
Tunas, bonitos, billfishes, et al.	2,069	2,299	2,355	2,522
Crustaceans	2,028	2,102	2,332	2,387
Miscellaneous aquatic plants and animals	1,463	1,536	1,680	1,651
Flounders, halibuts, soles, et al.	1,158	1,134	1,082	1,212
Shads, milkfishes, et al.	750	766	762	838
Salmon, trouts, smelts, et al.	552	556	633	621
Sharks, rays, chimaeras, et al.	595	555	560	606
River eels	57	67	71	77
Sturgeons, paddlefishes, et al.	28	31	32	28
Total (1)	68,608	72,113	71,213	72,380

(1) May not add to total because of rounding.

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1978, Vol. 46.

DISPOSITION OF WORLD COMMERCIAL CATCH (EXCEPT WHALES AND SEALS), 1973-77

Item	1973	1974	1975	1976	1977
	Percent of total				
Marketed fresh	30.1	29.4	28.7	27.9	30.5
Frozen	17.4	16.4	16.8	17.4	17.1
Cured	11.8	11.4	11.7	11.2	11.1
Canned	13.8	13.2	13.4	13.0	13.3
Reduced to meal and oil	25.4	28.2	28.0	29.1	26.6
Miscellaneous purposes	1.5	1.4	1.4	1.4	1.4
Total	100.0	100.0	100.0	100.0	100.0

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1977, Vol. 45.

WORLD IMPORTS AND EXPORTS OF SEVEN FISHERY COMMODITY GROUPS, BY LEADING COUNTRIES, 1973-77

Country	1973	1974	1975	1976	1977
	Thousand U.S. dollars				
IMPORTS					
Japan	1,019,427	1,050,306	1,218,062	1,783,926	2,295,503
United States	1,392,328	1,518,599	1,381,271	1,890,869	2,085,845
France	368,813	404,968	489,030	540,895	674,909
Federal Republic of Germany	430,142	513,809	490,344	535,598	666,241
United Kingdom	504,998	446,655	434,354	512,703	556,205
Italy	282,222	306,239	310,673	387,828	426,308
Netherlands	135,599	161,741	172,477	202,395	257,693
Belgium	155,419	175,245	177,762	216,264	256,479
Sweden	160,078	174,857	168,605	195,555	218,833
Hong Kong	123,321	128,664	135,808	182,458	215,172
Canada	109,233	120,135	130,812	183,618	202,489
Denmark	87,844	118,391	115,935	132,122	175,102
Spain	111,450	183,097	151,707	152,572	155,762
Switzerland	91,708	98,319	96,103	107,977	138,551
Australia	70,176	105,475	100,380	90,861	122,978
Singapore	53,761	60,865	71,801	68,704	89,588
Portugal	67,859	105,513	104,750	110,027	86,629
Nigeria	10,738	11,615	62,660	122,846	(1)75,052
Other countries	872,703	1,163,527	1,128,417	1,200,990	1,242,703
Total	6,047,819	6,848,020	6,940,951	8,618,208	9,942,042
EXPORTS					
Norway	514,072	517,162	515,440	654,577	840,728
Canada	490,696	433,360	441,928	598,796	756,595
Republic of Korea	146,219	168,977	361,117	321,468	696,716
Japan	553,928	609,112	489,958	649,373	631,357
Denmark	381,910	439,834	426,772	586,282	627,247
United States	285,192	252,641	298,034	371,899	508,064
Iceland	212,205	248,275	243,530	316,760	381,064
Netherlands	207,881	215,839	258,036	279,790	314,928
Mexico	116,686	135,650	160,557	205,200	277,523
Spain	169,207	208,560	181,914	244,970	236,419
Federal Republic of Germany	139,278	157,500	139,039	181,042	230,689
Peru	155,135	255,911	212,586	212,868	211,268
India	96,405	95,088	132,879	192,601	205,727
United Kingdom	113,863	138,272	134,207	153,382	197,063
USSR	122,675	162,058	212,159	198,448	195,198
Thailand	81,108	75,935	102,694	150,378	175,039
France	102,131	109,959	110,593	136,796	162,712
Indonesia	62,224	89,160	83,318	124,224	153,126
Other countries	1,588,763	1,700,851	1,800,652	2,215,569	2,451,989
Total	5,539,578	6,014,144	6,305,413	7,794,423	9,253,452

(1) Estimated by FAO.

Note:--Data on imports and exports cover the international trade of 162 countries. Among the countries excluded, only mainland China, has significant exports. The total value of exports is consistently less than the total value of imports, probably because charges for insurance, freight, and similar expenses were included in the import value but not in the export value. The seven fishery commodity groups covered by this table are: 1. Fish, fresh, chilled or frozen; 2. Fish, dried, salted, or smoked; 3. Crustaceans and mollusks, fresh, frozen, dried, salted, etc.; 4. Fish products and preparations, whether or not in airtight containers; 5. Crustacean and mollusk products and preparations, whether or not in airtight containers; 6. Oils and fats, crude or refined, of aquatic animal origin; and 7. Meals, solubles, and similar animal foodstuffs, of aquatic animal origin.

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1977, Vol. 45.

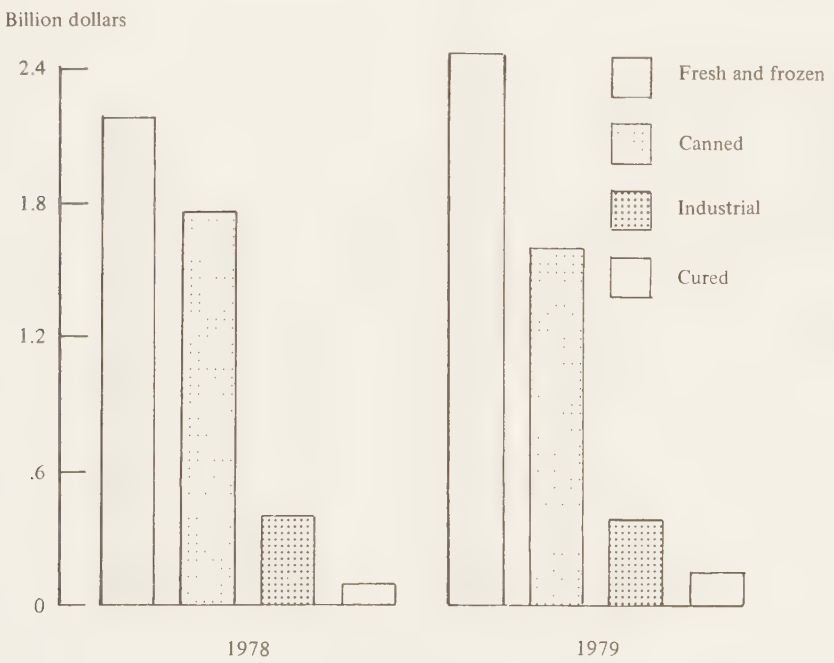
VALUE OF PROCESSED FISHERY PRODUCTS, 1978 AND 1979
(Processed from domestic catch and imported products)

Item	1978		1979 (1)	
	Thousand dollars	Percent of total	Thousand dollars	Percent of total
Edible:				
Fresh and frozen:				
Fillets and steaks, raw.	241,274	5.4	253,185	5.4
Fish sticks.	86,712	1.9	94,501	2.0
Fish portions.	415,892	9.3	423,363	9.0
Breaded shrimp	258,467	5.8	293,136	6.3
Other.	1,180,666	26.5	1,450,000	30.9
Total.	2,183,011	48.9	2,514,185	53.6
Canned	1,748,068	39.1	1,616,437	34.4
Cured.	117,853	2.6	148,000	3.2
Total edible	4,048,932	90.6	4,278,622	91.2
Industrial:				
Bait and animal food (canned).	164,959	3.7	151,469	3.2
Fish meal, oil, and solubles.	204,211	4.6	203,809	4.3
Other.	49,209	1.1	59,601	1.3
Total industrial . . .	418,379	9.4	414,879	8.8
Grand total.	4,467,311	100.0	4,693,501	100.0

(1) Preliminary.

Note:--Includes value of sealskins and the value of imported items that may be further processed in the United States. Value is based on selling price at plant. Includes products made from domestic landings and imported products.

VALUE OF PROCESSED FISHERY PRODUCTS, 1978 AND 1979
(Processed from Domestic Catch and Imported Products)



PROCESSED FISHERY PRODUCTS

FISH FILLETS AND STEAKS

U.S. PRODUCTION OF FRESH AND FROZEN FILLETS AND STEAKS, BY SPECIES, 1978 AND 1979

Species	1978		1979	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Fillets:				
Anglerfish	1,202	1,266	3,673	4,269
Buffalofish	168	112	181	105
Carp	3,183	1,744	3,417	1,902
Cod	27,188	35,209	33,340	45,520
Cusk	1,657	1,914	856	1,085
Flounders	46,338	83,460	46,982	87,107
Groupers	249	622	287	832
Haddock	17,392	26,210	19,668	34,059
Hake, Atlantic	1,227	1,508	1,410	1,617
Halibut	331	873	202	539
Herring, sea	20,166	9,770	11,873	6,537
Lingcod	2,323	2,039	987	1,165
Ocean perch:				
Atlantic	9,232	9,897	8,607	10,066
Pacific	1,453	1,693	2,005	2,270
Pollock:				
Atlantic	8,877	7,241	10,066	8,817
Alaska	105	91	(1)	(1)
Rockfishes	9,657	10,476	10,440	11,623
Sablefish	3,377	2,205	2,152	1,718
Salmon	1,692	4,223	200	627
Snapper, red	390	1,005	243	610
Spanish mackerel	3,832	3,157	1,135	1,235
Whitefish	782	1,294	606	1,356
Whiting, Atlantic	767	517	514	386
Yellow perch	2,214	5,068	1,949	5,932
Yellow pike	645	1,622	966	2,717
Unclassified	14,602	14,626	13,589	11,944
Total	179,049	227,842	175,348	244,038
Steaks:				
Cod	(1)	(1)	843	1,028
Halibut	2,325	6,522	1,719	4,998
Salmon	2,457	5,776	1,138	1,941
Swordfish	351	859	268	839
Unclassified	174	275	304	341
Total	5,307	13,432	4,272	9,147
Grand total	184,356	241,274	179,620	253,185

(1) Included with unclassified.

Note:--The following amounts of frozen fish blocks were produced from the fillets reported above: 1.9 million lb valued at $1.6 million in 1978 and 4.9 million lb valued at $4.4 million in 1979.
Final data for 1979 will be published in U.S. Production of Fish Fillets and Steaks, Annual Summary, 1979, Current Fishery Statistics No. 8008.

FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP

U.S. PRODUCTION OF FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1970-79

Year	Fish sticks		Fish portions		Breaded shrimp	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1970	115,924	57,722	234,247	97,930	104,953	112,166
1971	97,777	56,807	240,196	123,136	104,588	121,213
1972	114,493	61,491	269,204	149,148	107,375	140,933
1973	*127,156	79,818	298,396	198,984	*111,922	176,793
1974	103,059	64,599	276,226	193,830	91,778	142,559
1975	91,166	62,182	295,613	216,253	97,694	176,742
1976	94,169	73,182	344,284	286,240	95,923	202,972
1977	87,230	68,727	355,443	341,760	97,518	216,551
1978	94,674	86,712	389,430	415,892	110,888	258,467
1979	91,870	*94,501	*390,373	*423,363	93,828	*293,136

*Record. Note:--Data for 1970 to 1978 include all firms reporting annually and quarterly. Data for 1979 include only those firms reporting quarterly. Fish Sticks, Fish Portions, and Breaded Shrimp Annual Summary, 1979, Current Fishery Statistics No. 8004 will give additional information.

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, BY SPECIES, 1978 AND 1979

Species	Pounds per case	1978			1979		
		Standard cases	Thousand pounds	Thousand dollars	Standard cases	Thousand pounds	Thousand dollars
For human consumption:							
Fish:							
Gefiltefish.	48	267,389	12,835	8,575	296,799	14,246	11,123
Herring and herring specialties	48	95,020	4,561	5,837	71,569	3,435	4,836
Jack mackerel.	45	722,133	32,496	9,751	582,026	26,191	7,690
Roe and caviar	48	20,638	991	4,139	17,128	822	4,371
Salmon:							
Natural.	48	3,422,486	164,279	248,553	3,147,633	151,086	277,131
Specialties.	48	2,272	109	593	1,592	76	472
Sardines, Maine. . . .	23.4	1,127,171	26,376	35,641	1,297,830	30,369	44,818
Tuna:							
Solid.	21	7,269,288	152,655	302,031	5,841,786	122,678	246,029
Chunks	19.5	27,701,193	540,173	953,448	25,014,923	487,791	847,749
Flakes and grated. .	18	664,720	11,965	17,781	578,476	10,413	15,770
Total tuna	--	35,635,201	704,793	1,273,260	31,435,185	620,882	1,109,548
Specialties.	48	12,585	604	497	31,848	1,529	1,128
Tunalike fish	(1)	180,429	3,576	3,737	77,129	1,523	1,614
Other.	--	164,176	7,881	5,547	125,667	6,020	4,720
Total fish	--	41,649,500	958,501	1,596,130	37,084,406	856,179	1,467,451
Shellfish:							
Clams:							
Whole and minced (2)	15	659,999	9,900	25,383	792,694	11,890	26,221
Chowder and juice (2)	30	1,963,146	58,894	34,807	2,155,873	64,376	36,505
Specialties.	48	89,280	4,285	4,480	115,190	5,529	5,658
Crabs:							
Natural.	19.5	255,687	4,986	22,300	241,386	4,707	23,499
Specialties.	48	7,664	368	355	6,017	289	361
Oysters:							
Natural (3).	7	85,652	600	1,337	65,901	461	1,062
Specialties.	48	225,036	10,802	8,561	222,365	10,674	8,600
Shrimp:							
Natural (3).	6.75	2,489,717	16,806	48,794	1,543,950	10,422	42,079
Specialties.	48	30,707	1,474	1,305	24,793	1,190	940
Squid.	48	161,773	7,765	2,424	84,647	4,063	1,424
Other.	--	39,022	1,873	2,192	48,150	2,311	2,637
Total shellfish. .	--	6,007,683	117,753	151,938	5,300,966	115,912	148,986
Total for human consumption. . .	--	47,657,183	1,076,254	1,748,068	42,385,372	972,091	1,616,437
For bait and animal food:							
Animal food.	48	11,227,312	538,911	162,380	9,902,350	475,313	148,061
Salmon eggs, et al.. . .	48	6,738	323	2,579	6,122	294	3,408
Total for bait and animal food.	48	11,234,050	539,234	164,959	9,908,472	475,607	151,469
Grand total. . . .	--	58,891,233	1,615,488	1,913,027	52,293,844	1,447,698	1,767,906

(1) Standard cases 48 cans, solid pack (7 oz net each) contains 21 lb; chunk (6.50 oz net each) 19.5 lb; and flakes and grated (6 oz net each) 18 lb. (2) "Cut out" or "drained" weight of can contents are given for whole or minced clams, and net contents for other clam products. (3) Drained weight.

Note:--Final figures will be published in Canned Fishery Products, Annual Summary, 1979, Current Fishery Statistics No. 8001.

PROCESSED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED TUNA, 1977-79

Item	Pounds per case	1977		1978		1979	
		Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Albacore:							
Solid.	21	4,615	183,647	5,579	239,822	4,489	194,002
Chunk.	19.5	1,390	52,198	1,265	49,458	1,040	42,365
Flakes and grated. .	18	216	4,889	276	7,226	278	7,783
Total	--	6,221	240,734	7,120	296,506	5,807	244,150
Lightmeat:							
Solid.	21	1,664	55,672	1,690	61,676	1,353	52,027
Chunk.	19.5	19,468	602,942	26,436	904,523	23,975	805,384
Flakes and grated. .	18	307	7,266	389	10,555	300	7,987
Total	--	21,439	665,880	28,515	976,754	25,628	865,398
Grand total . . .	--	27,660	906,614	35,635	1,273,260	31,435	1,109,548

PRODUCTION OF CANNED SHRIMP, BY AREA, 1977-79

Area	Pounds per case	1977		1978		1979	
		Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Gulf States.	6.75	2,130	48,271	1,531	33,563	900	30,148
Pacific States	6.75	1,503	23,065	959	15,231	644	11,931
Total	6.75	3,633	71,336	2,490	48,794	1,544	42,079

PRODUCTION OF CANNED SALMON, 1977-79

Item	Pounds per case	1977		1978		1979	
		Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Chinook or King. . . .	48.0	16	1,514	19	1,655	12	1,106
Chum or keta	48.0	477	28,751	368	21,011	144	10,056
Pink	48.0	1,553	107,835	1,957	127,165	1,919	150,104
Red or sockeye	48.0	1,055	101,713	1,041	95,914	1,040	112,975
Silver or coho	48.0	41	3,527	37	2,808	33	2,890
Total	--	3,142	243,340	3,422	248,553	3,148	277,131

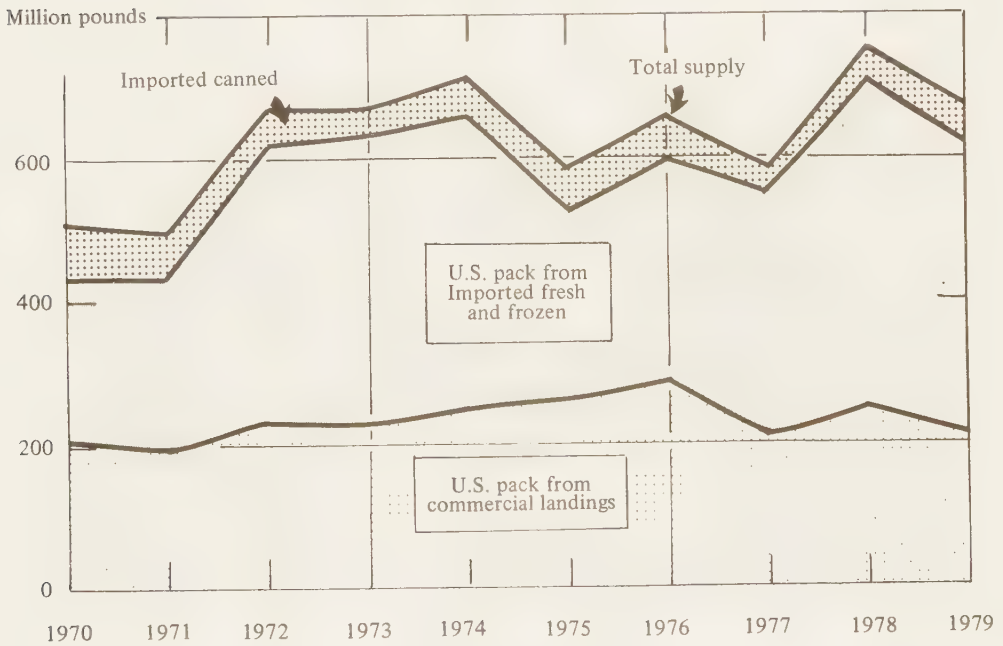
CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, 1970-79

Year	For human consumption		For animal food and bait		Total	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1970. . . .	805,178	632,625	540,713	109,135	1,345,891	741,760
1971. . . .	816,227	666,239	512,589	104,358	1,328,816	770,597
1972. . . .	930,232	853,495	666,598	141,427	1,596,830	994,922
1973. . . .	951,000	996,302	*696,357	170,858	1,647,357	1,167,160
1974. . . .	963,232	1,127,416	590,774	178,431	1,554,006	1,305,847
1975. . . .	802,112	919,692	583,751	152,253	1,385,863	1,071,945
1976. . . .	904,498	1,220,559	660,659	*197,955	1,565,157	1,418,514
1977. . . .	923,660	1,404,534	512,683	170,155	1,436,343	1,574,689
1978. . . .	*1,076,254	*1,748,068	539,234	164,959	*1,615,488	*1,913,027
1979. . . .	972,091	1,616,437	475,607	151,469	1,447,698	1,767,906

*Record.

U.S. SUPPLY OF CANNED TUNA, 1970-79



INDUSTRIAL PRODUCTS

PRODUCTION OF FISH MEAL, OIL, AND SOLUBLES, 1978 and 1979

Product	1978		1979	
	Short tons	Thousand dollars	Short tons	Thousand dollars
Dried scrap and meal:				
Fish:				
Anchovy	2,076	650	9,886	3,233
Menhaden (1)	276,546	96,643	280,813	103,065
Tuna and mackerel	50,603	14,444	47,391	18,052
Unclassified	24,488	8,474	24,850	8,997
Total	353,713	120,211	362,940	133,347
Shellfish	9,197	996	10,878	1,279
Grand total	362,910	121,207	373,818	134,626
Solubles:				
Menhaden (1)	132,007	19,099	104,920	11,390
Unclassified	30,536	3,204	30,008	3,685
Total	162,543	22,303	134,928	15,075
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Body oil:				
Anchovy	787	95	2,640	310
Menhaden (1)	284,031	58,711	251,349	51,585
Tuna and mackerel	4,358	455	5,413	627
Unclassified (2)	7,111	1,440	8,259	1,586
Total	296,287	60,701	267,661	54,108

(1) May include small quantities made from other species. (2) Includes a small amount of liver oils. Note:--To convert pounds of oil to gallons divide by 7.75. The above data include production in American Samoa and Puerto Rico. Final data will be published in Industrial Fishery Products, Annual Summary, 1979, Current Fisheries Statistics No. 8002.

PRODUCTION OF INDUSTRIAL PRODUCTS, 1970-79

Year	Quantity			Value			
	Fish meal	Fish solubles	Marine animal oil	Fish meal, solubles, and oil	Shell products (1)	Other industrial products	Grand total
	Short tons	Short tons	Thousand pounds	Thousand dollars			
1970	269,197	94,968	206,084	69,484	3,409	26,646	99,540
1971	292,812	111,188	265,450	70,377	4,128	32,046	106,551
1972	285,506	134,395	188,445	67,133	4,210	84,639	155,982
1973	287,517	137,435	224,634	160,914	4,015	37,899	202,828
1974	300,714	137,259	237,980	145,325	4,651	48,858	198,834
1975	290,431	127,850	245,653	106,901	5,847	49,550	162,297
1976	309,694	133,107	204,581	142,228	6,085	36,437	184,750
1977	282,291	122,330	133,182	139,423	6,708	44,441	190,572
1978	362,910	162,543	296,287	*204,211	4,465	42,247	250,923
1979	*373,818	134,928	267,661	203,809	(2)	59,601	263,410

(1) Beginning in 1970, data include only the value of oyster shell products. Data for marine-shell and mussel-shell products are included with "other industrial products." (2) Included with other "Industrial products." *Record. Record fish soluble production, 165,359 short tons in 1959; marine animal oil production, 299.3 million lb in 1936; and shell products, $17.3 million in 1950. Note:--Does not include the value of imported items that may be further processed, or the value of sealskins. Table may not add because of rounding.

COLD STORAGE HOLDINGS

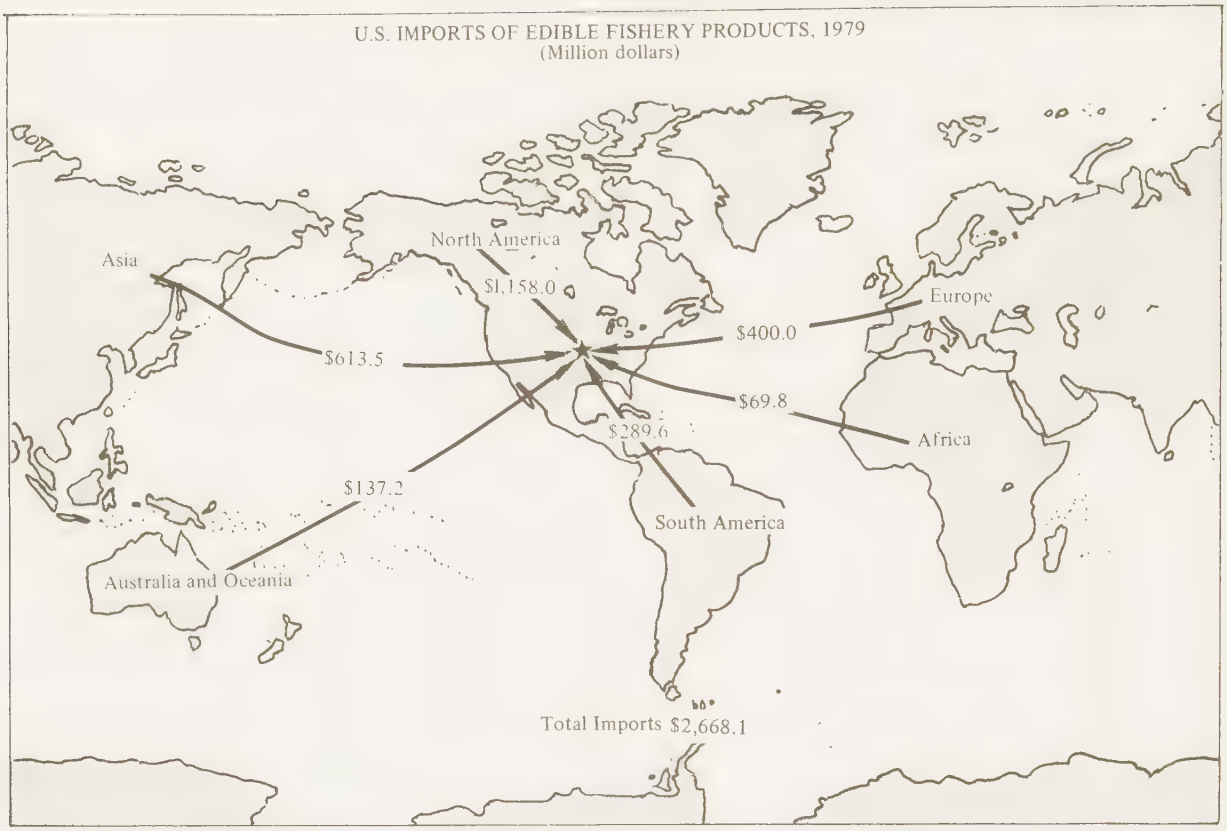
FROZEN FISHERY PRODUCTS

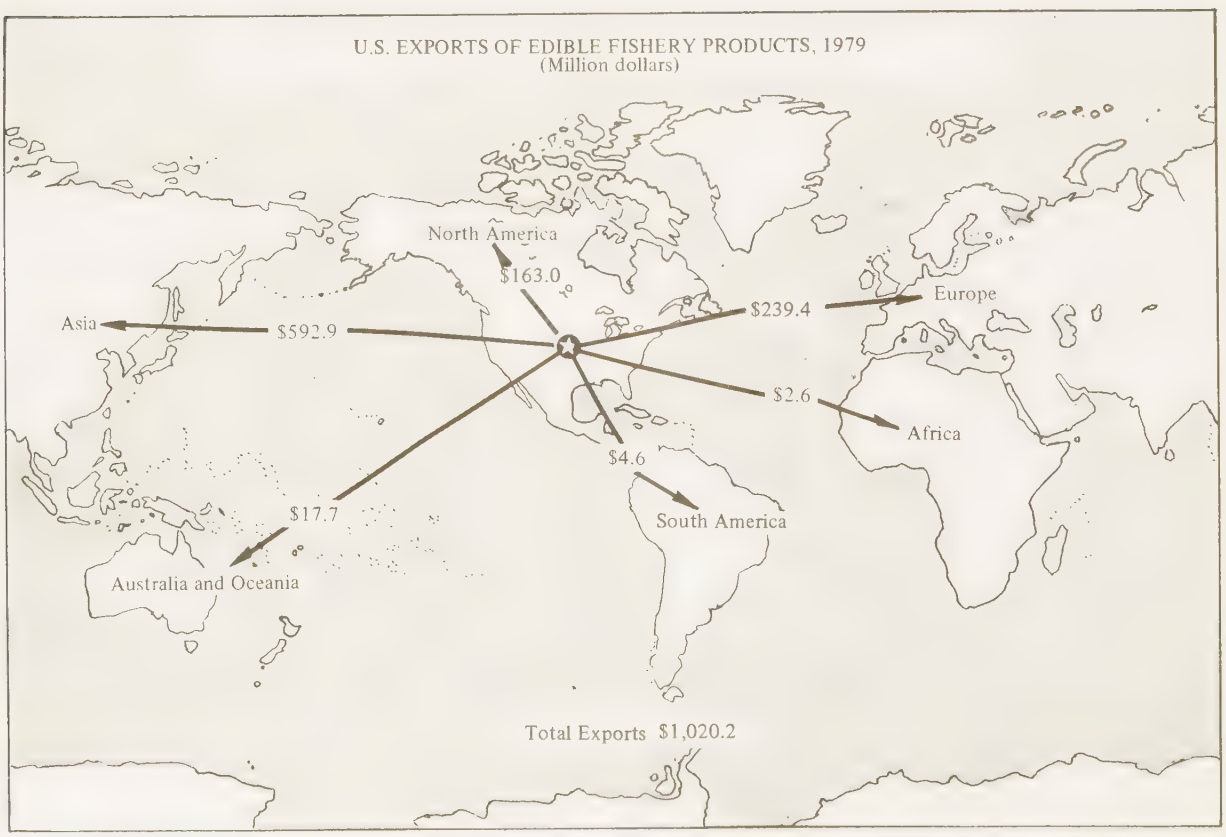
U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1979

Item	January 1	March 31	June 30	September 30	December 31
			Thousand pounds		
Blocks:					
Cod	35,508	20,338	21,072	35,272	24,748
Flounder	3,040	2,214	1,885	3,270	3,587
Greenland turbot	589	151	90	1,619	2,032
Haddock	5,233	5,563	1,412	1,794	885
Ocean perch	1,389	1,404	952	2,011	3,024
Pollock (Alaska and other)	16,539	6,282	8,536	12,466	13,971
Whiting	4,532	2,126	7,381	4,665	7,302
Minced (grated) all species	2,056	1,232	2,507	5,097	4,376
Unclassified	3,026	2,490	2,899	2,124	2,575
Total blocks	71,912	41,800	46,734	68,318	62,500
Fillets and steaks:					
Cod	21,723	16,474	23,243	30,374	23,971
Flounder	9,710	5,631	6,609	8,481	12,707
Greenland turbot	14,088	7,084	5,293	10,175	9,101
Haddock	6,261	3,305	3,288	4,091	4,356
Halibut	2,306	1,934	1,463	2,103	1,993
Ocean perch	11,476	4,046	5,880	12,793	19,373
Whiting	5,288	4,468	3,635	3,632	3,719
Unclassified	31,251	24,385	22,353	30,473	36,214
Total fillets and steaks	102,103	67,327	71,764	102,122	111,434
Fish sticks and portions (cooked and uncooked, all species)	37,125	29,686	41,258	37,727	41,719
Round, dressed, etc:					
Catfish	1,104	1,034	1,062	1,253	1,765
Halibut	2,739	1,503	4,125	11,661	8,500
Rainbow trout	2,083	1,967	2,004	1,611	1,988
Salmon	25,146	12,496	10,026	48,598	36,653
Whiting	4,237	3,193	3,598	2,069	2,502
Unclassified fish	27,929	19,127	19,691	21,723	21,637
Crabs:					
King	27,058	23,743	14,338	9,323	34,063
Snow	8,150	8,587	15,548	14,864	11,222
Unclassified	6,915	6,063	9,015	7,108	7,659
Lobsters (spiny and other)	8,295	5,614	6,415	7,286	8,050
Shrimp:					
Raw, headless	32,757	16,746	17,339	25,421	46,866
Breaded	6,791	7,034	6,359	5,513	6,838
Peeled	14,138	12,435	11,989	18,359	20,101
Unclassified	11,086	7,200	6,999	10,419	13,638
Total shrimp	64,772	43,415	42,686	59,712	87,443
Other shellfish	22,460	17,051	21,525	24,938	23,000
Bait and animal food	9,447	9,608	13,445	8,926	11,054
Total fish and shellfish	421,475	292,214	323,234	427,239	471,189

Note:--Holdings of frozen fishery products include domestic and imported frozen fish and shellfish.

Source:--Final figures will be published in Frozen Fishery Products, Annual Summary, 1979, Current Fishery Statistics No. 8006.


U.S. IMPORTS OF EDIBLE FISHERY PRODUCTS, 1979
(Million dollars)
Asia
North America
$1,158.0
Europe
$400.0
$613.5
$69.8
$289.6
Africa
$137.2
South America
Australia and Oceania
Total Imports $2,668.1


U.S. EXPORTS OF EDIBLE FISHERY PRODUCTS, 1979
(Million dollars)
North America
$163.0
Europe
$239.4
Asia
$592.9
$2.6
Africa
$4.6
$17.7
South America
Australia and Oceania
Total Exports $1,020.2

U.S. IMPORTS

IMPORTS OF EDIBLE AND NONEDIBLE FISHERY PRODUCTS, 1970-79

Year	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	- - - Thousand dollars - - -	
1970	1,873,300	812,530	224,880	1,037,410
1971	1,785,470	887,070	187,131	1,074,201
1972	2,341,138	1,233,292	261,119	1,494,411
1973	*2,416,193	1,398,484	184,649	1,583,133
1974	2,266,880	1,495,380	215,498	1,710,878
1975	1,913,089	1,367,180	269,919	1,637,099
1976	2,228,475	1,916,848	415,497	2,332,345
1977	2,177,010	2,078,492	543,699	2,622,191
1978	2,410,512	2,253,142	823,422	3,076,564
1979	2,369,369	*2,668,051	*1,143,239	*3,811,290

*Record. Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS OF FISHERY PRODUCTS: VALUE, DUTIES COLLECTED, AND AD VALOREM EQUIVALENT, 1970-79

Year	Value		Duties collected		Average ad valorem equivalent	
	Fishery imports	All imports	Fishery imports	All imports	Fishery imports	All imports
	- - - - - - - - Thousand dollars - - - - - - - -				Percent	
1970	1,037,410	39,767,700	25,175	2,551,200	2.4	6.5
1971	1,074,201	45,545,900	(1)22,455	(1)2,768,000	2.1	6.1
1972	1,494,411	55,555,300	24,292	3,124,000	1.6	5.6
1973	1,583,133	68,655,100	25,835	3,459,000	1.6	5.0
1974	1,710,878	100,125,800	29,815	3,772,000	1.7	3.8
1975	1,637,099	96,515,102	26,675	3,780,000	1.6	3.9
1976	2,332,345	121,120,869	43,293	4,674,700	1.9	3.9
1977	2,622,191	147,075,300	58,252	5,484,800	2.2	3.7
1978	3,076,564	172,952,200	88,240	7,161,500	2.9	4.1
1979	3,811,290	205,922,662	117,153	7,202,174	3.1	3.5

(1) These calculated duties do not include the temporary surcharge imposed by the President under Proclamation No. 4074, effective August 16, 1971, and terminating December 20, 1971.

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

U.S. IMPORTS

IMPORTS OF FISHERY PRODUCTS, BY PRINCIPAL ITEMS, 1978 AND 1979

Item	1978		1979	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Edible fishery products:				
Fresh and frozen:				
Fillets:				
Groundfish	233,106	240,075	252,957	284,953
Other	190,643	178,655	174,569	185,418
Total	423,749	418,730	427,526	470,371
Blocks and slabs	406,286	325,367	408,152	337,365
Halibut	6,955	10,779	4,119	7,407
Salmon	6,617	13,562	5,022	11,390
Tuna:				
Albacore	199,331	122,436	212,517	144,553
Other	602,229	198,155	535,262	171,307
Loins and discs	6,679	6,564	5,842	5,706
Crabmeat	4,681	15,190	2,784	9,807
Scallops (meats)	28,367	72,829	25,155	84,906
Lobsters:				
American (includes fresh-cooked meat)	13,150	33,813	16,262	39,047
Spiny	43,034	222,474	44,417	259,421
Shrimp	195,475	418,354	220,216	705,008
Other	199,966	90,188	182,349	100,706
Canned:				
Herring, not in oil	7,635	8,315	7,077	9,481
Salmon	325	693	434	800
Sardines:				
In oil	24,231	25,490	22,878	27,679
Not in oil	24,486	14,580	26,878	16,299
Tuna:				
In oil	207	432	627	743
Not in oil	51,574	63,390	53,076	64,328
Bonito and yellowtail:				
In oil	168	157	300	224
Not in oil	220	207	71	67
Abalone	3,930	15,268	4,282	15,035
Clams	4,739	6,089	5,967	7,427
Crabmeat	4,053	9,503	5,073	12,329
Lobsters:				
American	2,295	15,215	1,790	10,912
Spiny	125	455	134	743
Oysters	23,521	24,547	19,075	18,320
Shrimp	2,739	3,370	4,288	8,230
Other	46,412	51,304	56,306	58,640
Cured:				
Pickled or salted:				
Cod, haddock, hake, etc.	37,606	38,291	39,683	43,293
Herring	24,958	13,639	17,218	9,433
Other	6,919	9,653	7,849	12,592
Other fish and shellfish	7,850	4,103	6,740	4,482
Total edible fishery products	2,410,512	2,253,142	2,369,369	2,668,051
Nonedible fishery products:				
Scrap and meal	87,802	12,577	179,226	29,616
Solubles	380	44	207	24
Other	-	810,801	-	1,113,599
Total nonedible fishery products	-	823,422	-	1,143,239
Grand total	-	3,076,564	-	3,811,290

Note:--Data include imports into the United States and Puerto Rico and include landings of tuna by foreign vessels in American Samoa.
Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. IMPORTS

IMPORTS OF EDIBLE AND NONEDIBLE FISHERY PRODUCTS, 1979

Continent and country	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars
North America:				
Canada	537,298	591,863	39,203	631,066
Mexico	121,556	341,964	14,686	356,650
Panama	69,115	74,181	4,709	78,890
Nicaraqua	10,041	30,961	3	30,964
Honduras	6,452	27,081	-	27,081
Greenland	21,447	19,878	-	19,878
Other	58,942	72,032	7,320	79,352
Total	824,851	1,157,960	65,921	1,223,881
South America:				
Brazil	42,909	99,676	4,831	104,507
Ecuador	55,390	69,462	96	69,558
Argentina	42,776	26,017	9,732	35,749
Peru	33,948	12,609	18,124	30,733
Chile	12,395	17,213	8,366	25,579
Other	49,528	64,619	9,762	74,381
Total	236,946	289,596	50,911	340,507
Europe:				
European Economic Community:				
Italy	993	1,002	548,395	549,397
Federal Republic of Germany	1,841	1,879	52,182	54,061
Denmark	44,889	46,961	5,426	52,387
United Kingdom	6,835	14,418	33,480	47,898
Other	21,231	19,531	48,503	68,034
Total	75,789	83,791	687,986	771,777
Other:				
Iceland	190,126	214,791	435	215,226
Norway	53,482	61,617	6,943	68,560
Switzerland	24	74	36,284	36,358
Spain	18,667	14,842	18,854	33,696
Other	25,117	24,930	25,110	50,040
Total	287,416	316,254	87,626	403,880
Asia:				
Japan	241,264	190,713	65,329	256,042
Republic of Korea	150,369	105,153	5,950	111,103
Hong Kong	13,056	25,603	74,842	100,445
China, Taiwan	82,440	69,349	16,021	85,370
India	36,641	58,994	2,509	61,503
Other	234,278	163,650	79,229	242,879
Total	758,048	613,462	243,880	857,342
Australia and Oceania:				
Australia	12,439	79,633	1,244	80,877
New Zealand	9,356	22,197	287	22,484
New Guiana	49,545	16,636	6	16,642
British Pacific Islands	25,573	15,284	1	15,285
Other	8,932	3,463	1,163	4,626
Total	105,845	137,213	2,701	139,914
Africa:				
Republic of South Africa	28,542	46,836	1,791	48,627
Mauritius	11,421	7,936	-	7,936
Senegal	17,360	4,154	-	4,154
Ivory Coast	5,170	2,708	-	2,708
Other	17,981	8,141	2,423	10,564
Total	80,474	69,775	4,214	73,989
Grand total	2,369,369	2,668,051	1,143,239	3,811,290

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. IMPORTS

IMPORTS OF REGULAR AND MINCED FISH BLOCKS AND SLABS, BY SPECIES AND TYPE, 1978 AND 1979

Species and type	1978		1979	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Regular blocks and slabs:				
Cod	204,696	190,971	192,954	187,050
Flatfish:				
Turbot	4,352	2,684	5,361	3,791
Other	12,425	12,347	12,594	16,385
Haddock	27,026	26,101	18,308	18,439
Ocean perch, Atlantic	3,084	2,405	5,120	4,216
Pollock	81,294	50,560	86,583	53,631
Whiting	39,817	22,885	54,287	35,320
Other	14,231	9,730	11,284	8,460
Total	386,925	317,683	386,491	327,292
Minced blocks and slabs (1)	19,361	7,684	21,661	10,073
Grand total	406,286	325,367	408,152	337,365

(1) Most of the shipments were from Canada, Iceland, and Argentina.
Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS OF REGULAR AND MINCED FISH BLOCKS AND SLABS, BY COUNTRY OF ORIGIN, 1978 AND 1979

Country	1978		1979	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Canada	101,578	84,546	124,330	116,436
Iceland	65,945	58,789	72,866	64,669
Republic of Korea	52,471	30,898	65,738	40,247
Denmark	62,290	54,641	30,156	27,391
Norway	45,753	40,177	19,711	17,530
Argentina	26,128	14,168	27,853	17,043
Greenland	19,501	16,967	19,098	16,801
Other	32,620	25,181	48,400	37,248
Total	406,286	325,367	408,152	337,365

Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS OF GROUNDFISH FILLETS AND STEAKS, BY SPECIES, 1978 AND 1979 (1)

Species	1978		1979	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Cod	135,000	145,932	144,657	173,217
Haddock (2)	50,545	49,737	55,520	58,888
Ocean perch, Atlantic	47,561	44,406	52,780	52,848
Total	233,106	240,075	252,957	284,953

(1) Does not include data on fish blocks and slabs.
(2) Includes some quantities of cusk, hake, and pollock fillets.

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. IMPORTS

UNDER-QUOTA AND OVER-QUOTA IMPORTS OF GROUNDFISH FILLETS AND STEAKS, 1970-79 (1)

Year	Imports		
	Under quota (2)	Over quota (3)	Total
	Thousand pounds		
1970	27,401	158,706	186,107
1971	30,329	141,123	171,452
1972	31,832	181,423	213,255
1973	34,125	185,971	220,096
1974	35,456	129,895	165,351
1975	35,695	164,661	200,356
1976	36,149	192,138	228,287
1977	35,437	181,986	217,423
1978	39,025	194,074	233,099
1979	42,744	210,213	252,957

(1) Includes Atlantic ocean perch.
(2) Dutiable at 1.875 cents per lb. Quota was filled in all years.
(3) Dutiable at 2.5 cents per lb.

Source:--Data on under-quota imports from U.S. Department of the Treasury, Bureau of Customs. Imports over quota calculated from imports reported by U.S. Department of Commerce, Bureau of the Census.

QUOTA AND IMPORTS OF CANNED TUNA NOT IN OIL, 1970-79

Year	Quota (1)	Imports	
		Under quota (2)	Over quota (3)
		Thousand pounds	
1970	70,146	70,146	902
1971	77,296	55,638	-
1972	78,532	54,474	-
1973	109,809	36,973	-
1974	112,176	52,172	-
1975	120,740	48,847	-
1976	98,125	56,409	-
1977	111,246	33,913	-
1978	101,407	50,031	-
1979	125,813	82,202	-

(1) Imports have been subject to tariff quotas since April 14, 1956, and are based on 20 percent of the previous year's domestic pack excluding American Samoa.
(2) Dutiable in 1956 to 1967 at 12.5 percent ad valorem; 1968, 11 percent; 1969, 10 percent; 1970, 8.5 percent; 1971, 7 percent; and in 1972 to 1979, 6 percent.
(3) Dutiable in 1970 at 17 percent ad valorem; 1971, 15 percent; and 1972 to 1979, 12.5 percent ad valorem.

Source:--U.S. Department of the Treasury, Bureau of Customs. Data in this table will not agree with tuna import data released by the U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

U.S. IMPORTS

IMPORTS OF SHRIMP, BY COUNTRY OF ORIGIN, 1978 AND 1979

Country	1978		1979	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
North America:				
Mexico	72,451	170,494	71,891	294,615
Panama	9,153	27,541	12,199	49,799
El Salvador	4,973	12,398	6,271	19,489
Nicaragua	5,575	15,580	5,397	17,771
Guatemala	4,164	10,572	3,569	13,179
Honduras	3,488	8,347	3,127	12,078
Costa Rica	1,073	1,896	2,193	4,503
Canada	997	1,834	1,146	3,450
Greenland	494	584	795	1,445
Trinidad	540	1,329	265	1,074
Other	1,333	2,263	237	908
Total	104,241	252,838	107,090	418,311
South America:				
Ecuador	10,946	30,033	13,703	54,483
Brazil	3,899	5,664	9,681	27,454
Colombia	4,191	11,422	4,147	15,616
Venezuela	1,271	3,742	2,345	10,490
Guyana	3,363	6,759	3,734	7,636
French Guiana	1,715	3,465	3,598	7,260
Surinam	2,000	6,849	1,471	5,101
Peru	531	743	782	1,984
Chile	299	867	243	901
Argentina	4	13	59	171
Total	28,219	69,557	39,763	131,096
Europe:				
European Economic Community:				
United Kingdom	26	118	311	1,079
Netherlands	317	709	330	669
Denmark	58	116	262	410
Federal Republic of Germany	26	40	103	268
France	-	-	27	81
Other	31	48	38	95
Total	458	1,031	1,071	2,602
Other:				
Spain	221	1,241	275	1,938
Norway	17	58	369	1,307
Sweden	3	17	100	407
Iceland	1	6	18	51
Austria	10	31	15	31
USSR	-	-	20	10
Other	9	16	-	-
Total	261	1,369	797	3,744
Asia:				
India	39,160	44,788	30,785	48,212
Thailand	3,948	8,733	10,620	22,065
Hong Kong	3,610	7,699	5,349	16,307
China, Peking	43	137	2,989	14,904
China, Taiwan	3,206	4,941	7,934	14,312
Indonesia	3,771	6,076	5,523	11,209
Bangladesh	3,452	8,631	2,694	7,688
Sri Lanka (Ceylon)	1,072	1,774	1,320	3,092
Republic of Philippines	768	1,412	1,294	2,709
Malaysia	918	1,393	1,727	2,562
Pakistan	810	1,382	1,024	1,819
Burma	87	278	494	1,690
Other	2,680	6,248	1,489	2,764
Total	63,525	93,492	73,242	149,333
Australia and Oceania	190	890	1,173	5,568
Africa	1,320	2,547	1,368	2,584
Grand total	198,214	421,724	224,504	713,238

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. IMPORTS

IMPORTS OF SHRIMP, BY TYPE OF PRODUCT, 1978 AND 1979

Type of product	1978		1979	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Shell-on (heads off)	101,266	241,290	123,447	469,857
Peeled:				
Canned	2,739	3,370	4,288	8,230
Not breaded:				
Raw	83,126	160,047	86,069	212,474
Other	10,656	16,143	10,214	21,610
Breaded	427	874	486	1,067
Total	198,214	421,724	224,504	713,238

Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS OF FISH MEAL AND SCRAP, BY COUNTRY OF ORIGIN, 1978 AND 1979

Country	1978		1979	
	Short tons	Thousand dollars	Short tons	Thousand dollars
Peru	6,614	2,183	28,243	9,418
Canada	32,724	8,819	27,230	8,312
Panama	4,297	1,420	13,179	4,599
Norway	-	-	11,773	4,355
Chile	-	-	8,266	2,575
France	-	-	578	216
Miquelon	113	41	323	118
Argentina	-	-	20	13
Other	153	114	1	10
Total	43,901	12,577	89,613	29,616

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. EXPORTS

EXPORTS OF DOMESTIC FISHERY PRODUCTS, BY PRINCIPAL ITEMS, 1978 AND 1979

Item	1978		1979	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Edible fishery products:				
Fresh and frozen:				
Whole or eviscerated:				
Salmon	122,180	268,582	140,160	302,324
Other	70,332	48,912	104,941	91,650
Fillets:				
Salmon	3,591	7,674	4,205	9,270
Other	29,896	22,047	46,559	35,720
Fish sticks and portions	1,052	1,388	896	1,453
Shellfish:				
Shrimp	34,801	88,184	28,934	87,392
King crab	30,266	105,424	36,219	96,346
Snow crab	31,704	47,390	42,978	70,296
Other	23,901	35,458	37,759	52,519
Canned fish and shellfish:				
Mackerel	9,560	10,446	8,357	11,142
Salmon	32,513	49,240	50,719	91,916
Sardines	1,555	1,533	1,590	1,180
Shrimp	5,984	12,084	5,469	12,391
King crab	462	3,076	866	3,898
Squid	10,566	3,349	8,382	2,447
Other	5,082	10,496	3,447	9,957
Cured	11,445	9,677	10,441	15,326
Fish roe	22,891	105,708	21,010	123,551
Other fish and shellfish	530	986	648	1,426
Total edible fishery products	448,311	831,654	553,580	1,020,204
Nonedible fishery products:				
Fish meal	101,400	17,468	31,402	5,526
Fish oils	222,012	42,340	198,497	39,571
Seal furs	(1)	1,866	(1)	2,450
Other	-	(2)12,206	-	(2)14,615
Total nonedible fishery products	-	73,880	-	62,162
Grand total	-	905,534	-	1,082,366

(1) Number of seal furs was 22,000 in 1978 and 23,000 in 1979.
(2) Includes the value of whale and sperm oil.
Source:--U.S. Deparment of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC FISHERY PRODUCTS, 1970-79

Year	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars
1970	140,375	93,878	23,606	117,484
1971	171,816	113,637	25,608	139,245
1972	171,642	134,188	23,700	157,888
1973	238,942	241,866	57,302	299,168
1974	178,010	194,966	67,166	262,132
1975	218,152	267,360	37,369	304,729
1976	240,866	329,810	54,880	384,690
1977	331,059	473,375	47,121	520,496
1978	448,311	831,654	*73,880	905,534
1979	*553,580	*1,020,204	62,162	*1,082,366

*Record. Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. EXPORTS

EXPORTS OF DOMESTIC FISHERY PRODUCTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1979

Country	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars
North America:				
Canada	82,851	116,565	2,877	119,442
Mexico	14,049	35,477	514	35,991
Netherlands Antilles	1,937	3,355	2	3,357
Bermuda	911	1,944	42	1,986
Bahamas	1,066	1,507	48	1,555
Dominican Republic	853	829	325	1,154
Panama	533	751	6	757
French West Indies	526	427	76	503
British Virgin Islands	392	472	-	472
Barbados	279	322	10	332
Trinidad	142	288	2	290
Cayman Islands	140	211	-	211
Guatemala	116	195	13	208
Belize	83	159	2	161
Jamaica	134	122	27	149
Honduras	56	105	18	123
Costa Rica	60	110	1	111
El Salvador	22	38	43	81
Haiti	188	60	-	60
Nicaragua	5	7	-	7
Total	104,343	162,944	4,006	166,950
South America:				
Venezuela	7,509	4,109	90	4,199
Colombia	107	100	4,058	4,158
Argentina	263	141	30	171
Surinam	128	131	18	149
Brazil	5	30	8	38
Chile	-	-	37	37
Peru	126	31	3	34
Uruguay	9	27	-	27
Ecuador	7	25	-	25
Bolivia	8	18	-	18
Total	8,162	4,612	4,244	8,856
Europe:				
European Economic Community:				
France	31,961	69,783	946	70,729
United Kingdom	29,528	56,597	9,825	66,422
Netherlands	12,167	24,745	16,986	41,731
Federal Republic of Germany	32,698	26,156	4,496	30,652
Belgium and Luxembourg	10,379	22,905	3,644	26,549
Italy	6,291	8,305	949	9,254
Denmark	3,133	4,457	31	4,488
Ireland	387	617	-	617
Total	126,544	213,565	36,877	250,442
Other:				
Sweden	9,246	16,098	2,203	18,301
Greece	8,471	3,573	18	3,591
Spain	1,532	1,206	2,238	3,444
Switzerland	889	2,755	488	3,243

(Continued)

U.S. EXPORTS

EXPORTS OF DOMESTIC FISHERY PRODUCTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1979 - Continued

Country	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars		
Other - continued:				
Norway	1,276	1,594	178	1,772
Finland	197	235	-	235
Cyprus	185	195	-	195
Iceland	250	131	-	131
Bulgaria	-	-	62	62
Austria	5	7	9	16
Portugal	5	14	-	14
Malta and Gozo	8	12	-	12
Union of the Soviet Socialist Republics	-	3	-	3
Czechoslovakia	-	-	1	1
Total	22,064	25,823	5,197	31,020
Asia:				
Japan	253,125	563,006	4,844	567,850
Korea Republic	10,546	12,850	1,267	14,117
China, Peking	3,894	5,210	-	5,210
Hong Kong	2,205	3,832	223	4,055
China, Taiwan	2,650	3,556	425	3,981
Saudi Arabia	1,112	1,639	214	1,853
Singapore	375	911	39	950
Kuwait	2,985	855	-	855
Philippines	987	379	294	673
Israel	325	234	17	251
Thailand	111	161	37	198
Indonesia	25	92	1	93
United Arab Emirates	45	65	6	71
Malaysia	27	49	10	59
Jordan	65	32	-	32
Qatar	12	22	-	22
Lebanon	7	22	-	22
Bahrain	9	19	-	19
India	-	-	9	9
Sri Lanka (Ceylon)	-	2	3	5
Pakistan	-	-	5	5
Brunei	1	3	-	3
Oman	1	2	-	2
Bangladesh	-	-	1	1
Iran	1	1	-	1
Total	278,508	592,942	7,395	600,337
Australia and Oceania:				
Australia	8,667	15,000	297	15,297
New Zealand	837	1,659	11	1,670
French Pacific Islands	371	763	7	770
Trust Pacific Islands	106	152	-	152
Other Pacific Islands	38	95	-	95
Western Samoa	2	4	-	4
Total	10,021	17,673	315	17,988

(Continued)

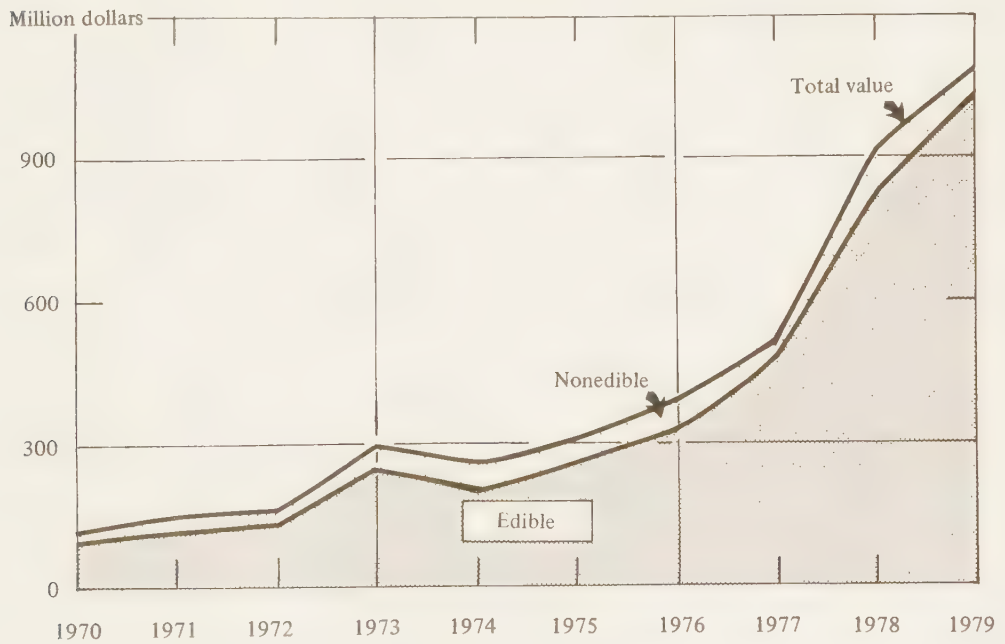
U.S. EXPORTS

EXPORTS OF DOMESTIC FISHERY PRODUCTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1979 - Continued

Country	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars		
Africa:				
Egypt	1,990	545	4,024	4,569
Republic of South Africa	532	951	19	970
Canary Islands	719	681	-	681
Nigeria	562	261	46	307
Guinea	36	61	-	61
Tunisia	18	49	-	49
Libya	47	33	-	33
Liberia	17	28	-	28
Congo (Brazzaville)	-	-	25	25
Zaire	8	20	-	20
Mauritius	1	4	10	14
Ghana	3	4	-	4
Ivory Coast	-	-	4	4
Sudan	-	3	-	3
Cameroon	2	2	-	2
Sierra Leone	2	2	-	2
Morocco	1	1	-	1
Total	3,938	2,645	4,128	6,773
Grand total	553,580	1,020,204	62,162	1,082,366

Source:--U.S. Department of Commerce, Bureau of the Census.

VALUE OF U.S. EXPORTS OF DOMESTIC FISHERY PRODUCTS, 1970-79



U.S. EXPORTS

EXPORTS OF DOMESTIC AND FOREIGN SHRIMP PRODUCTS, 1978 AND 1979

Item	1978		1979	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Fresh and frozen:				
Domestic	34,801	88,184	28,934	87,392
Foreign	13,308	44,672	5,826	21,866
Total	48,109	132,856	34,760	109,258
Canned:				
Domestic	5,984	12,084	5,469	12,391
Foreign	58	93	25	45
Total	6,042	12,177	5,494	12,436
Total:				
Domestic	40,785	100,268	34,403	99,783
Foreign	13,366	44,765	5,851	21,911
Total	54,151	145,033	40,254	121,694

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC FRESH AND FROZEN SHRIMP, BY COUNTRY OF DESTINATION, 1978 AND 1979

Country	1978		1979	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Mexico	9,894	21,653	10,629	33,195
Canada	12,062	28,125	11,176	29,251
Japan	6,284	22,594	3,953	16,624
Sweden	1,867	4,533	646	1,940
Netherlands	99	264	561	856
Norway	326	818	214	753
New Zealand	164	385	231	610
Australia	1,340	3,729	185	500
Hong Kong	12	29	291	489
Other	2,753	6,054	1,048	3,174
Total	34,801	88,184	28,934	87,392

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC CANNED SHRIMP, BY COUNTRY OF DESTINATION, 1978 AND 1979

Country	1978		1979	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Canada	4,233	8,376	4,127	8,972
Sweden	217	649	287	735
Switzerland	290	556	264	730
Japan	206	405	209	497
New Zealand	89	209	145	360
United Kingdom	244	347	145	316
France	143	362	50	166
Federal Republic of Germany	33	71	47	128
Other	529	1,109	195	487
Total	5,984	12,084	5,469	12,391

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. EXPORTS

EXPORTS OF DOMESTIC FRESH AND FROZEN SALMON, WHOLE OR EVISCERATED, BY COUNTRY OF DESTINATION, 1978 AND 1979

Country	1978		1979	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	87,679	197,008	93,458	191,803
France	12,030	30,829	17,123	48,448
United Kingdom	5,950	10,082	6,497	13,941
Sweden	4,103	6,331	5,972	9,421
Canada	3,653	4,719	6,445	9,264
Belgium and Luxembourg	1,638	4,101	2,747	8,222
Federal Republic of Germany	2,114	5,256	2,700	7,746
Netherlands	1,690	3,627	1,637	4,553
Denmark	940	1,686	1,443	2,909
Italy	655	2,115	812	2,783
Republic of Korea	1,050	1,233	409	886
Switzerland	68	138	125	352
Other	610	1,457	792	1,996
Total	122,180	268,582	140,160	302,324

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC FRESH AND FROZEN SALMON FILLETS, STEAKS OR PORTIONS, BY COUNTRY OF DESTINATION, 1978 AND 1979

Country	1978		1979	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	2,126	4,981	1,820	3,742
France	505	1,015	763	2,541
Canada	295	346	786	1,280
Federal Republic of Germany	130	354	285	849
Sweden	67	157	179	249
Belgium and Luxembourg	132	239	94	182
United Kingdom	156	144	105	109
Other	180	438	173	318
Total	3,591	7,674	4,205	9,270

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC CANNED SALMON, BY COUNTRY OF DESTINATION, 1978 AND 1979

Country	1978		1979	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
United Kingdom	9,840	16,882	18,296	37,573
Canada	6,015	3,713	10,189	17,650
Australia	5,231	8,252	6,698	11,060
Netherlands	4,998	7,218	5,720	9,707
Japan	1,505	2,587	3,078	5,512
Belgium and Luxembourg	1,954	2,682	3,360	4,694
France	882	1,093	615	1,255
Other	2,088	6,813	2,763	4,465
Total	32,513	49,240	50,719	91,916

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. EXPORTS

EXPORTS OF DOMESTIC FRESH AND FROZEN KING CRAB, BY COUNTRY OF DESTINATION, 1978 AND 1979

Country	1978		1979	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	27,567	90,135	32,863	78,262
Belgium and Luxembourg	249	2,192	634	5,027
Canada	994	3,317	1,291	4,289
Netherlands	611	4,892	526	4,085
France	58	240	167	982
Australia	225	1,610	152	887
Switzerland	132	962	89	491
Other	430	2,076	497	2,323
Total	30,266	105,424	36,219	96,346

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC FROZEN SNOW CRAB, BY COUNTRY OF DESTINATION, 1978 AND 1979

Country	1978		1979	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	30,935	44,953	41,942	66,328
France	142	529	176	885
United Kingdom	-	-	247	781
Belgium and Luxembourg	56	283	127	696
Canada	125	272	170	352
Netherlands	45	227	30	173
Other	401	1,126	286	1,081
Total	31,704	47,390	42,978	70,296

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC CANNED SQUID, BY COUNTRY OF DESTINATION, 1978 AND 1979

Country	1978		1979	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Greece	6,170	2,340	6,516	1,808
Philippines	1,255	426	973	355
Federal Republic of Germany	-	-	176	60
Canada	378	86	247	47
Spain	-	-	130	43
Australia	482	127	106	43
Other	2,281	370	234	91
Total	10,566	3,349	8,382	2,447

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. EXPORTS

EXPORTS OF DOMESTIC FISH AND FISH LIVER OILS
BY COUNTRY OF DESTINATION, 1978 AND 1979

Country	1978		1979	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Netherlands	81,968	15,101	75,167	14,989
United Kingdom	50,600	9,840	45,048	8,843
Colombia	18,302	3,411	21,438	4,034
Belgium and Luxembourg	5,542	1,139	17,717	3,459
Federal Republic of Germany	45,042	8,523	13,820	2,971
Sweden	8,745	1,665	12,238	2,356
Spain	6,307	1,254	9,099	1,737
France	1,983	384	1,876	353
Other	3,523	1,023	2,094	829
Total	222,012	42,340	198,497	39,571

Note:--Does not include whale and sperm oil.
Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC FISH MEAL, BY COUNTRY OF DESTINATION, 1978 AND 1979

Country	1978		1979	
	Short Tons	Thousand dollars	Short Tons	Thousand dollars
Dominican Republic	1,160	348	1,007	326
Philippines	-	-	784	274
Federal Republic of Germany	29,803	9,962	951	267
Saudi Arabia	1,297	535	512	206
Canada	1	77	904	129
Mexico	-	-	682	116
Other	18,439	6,546	10,861	4,208
Total	50,700	17,468	15,701	5,526

Source:--U.S. Department of Commerce, Bureau of the Census.

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF EDIBLE AND INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1970-79
(Round weight)

Year	Domestic commercial landings		Imports (1)		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1970	4,917	42.9	6,557	57.1	11,474
1971	5,018	42.5	6,786	57.5	11,804
1972	4,806	34.7	9,043	65.3	13,849
1973	4,858	46.8	5,520	53.2	10,378
1974	4,967	50.3	4,908	49.7	9,875
1975	4,877	48.0	5,287	52.0	10,164
1976 (2)	5,350	46.3	6,205	53.7	11,555
1977 (2)	5,198	49.1	5,381	50.9	10,579
1978 (2)	6,028	52.4	5,481	47.6	11,509
1979 (2)	*6,267	53.0	5,564	47.0	11,831

(1) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa. (2) Preliminary.

Note:--The weights of U.S. landings and imports represent the round (live) weight of all items except univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.) which are shown in weight of meats, excluding the shell. *Record. Record imports in 1968 were 13,221 million lb; record total, 17,381 million lb.

U.S. SUPPLY OF EDIBLE COMMERCIAL FISHERY PRODUCTS, 1970-79
(Round weight)

Year	Domestic commercial landings		Imports (1)		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1970	2,537	40.8	3,676	59.2	6,213
1971	2,441	40.5	3,582	59.5	6,023
1972	2,435	35.3	4,454	64.7	6,889
1973	2,398	33.7	4,709	66.3	7,107
1974	2,496	37.6	4,142	62.4	6,638
1975	2,465	38.6	3,929	61.4	6,394
1976 (2)	2,760	37.4	4,629	62.6	7,389
1977 (2)	2,900	39.1	4,514	60.9	7,414
1978 (2)	3,177	30.1	*4,958	60.9	8,135
1979 (2)	*3,318	40.2	4,933	59.8	*8,251

(1) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa. (2) Preliminary. *Record.

U.S. SUPPLY OF INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1970-79
(Round weight)

Year	Domestic commercial landings		Imports		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1970	2,380	45.2	2,881	54.8	5,261
1971	2,577	44.6	3,204	55.4	5,781
1972	2,371	34.1	4,589	65.9	6,960
1973	2,460	75.2	811	24.8	3,271
1974	2,471	76.3	766	23.7	3,237
1975	2,412	64.0	1,358	36.0	3,770
1976 (1)	2,590	62.2	1,576	37.8	4,166
1977 (1)	2,298	72.6	867	27.4	3,165
1978 (1)	2,851	84.5	523	15.5	3,374
1979 (1)	*2,949	82.4	631	17.6	3,580

(1) Preliminary. *Record. Record imports in 1968, 9,989 million lb; record total supply, 11,802 million lb.

U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1978 AND 1979

Item	Domestic commercial landings		Imports (1)		Total	
	1978	1979	1978	1979	1978	1979
	Million pounds, round weight					
Edible fishery products:						
Finfish	2,018	2,204	4,245	4,120	6,263	6,324
Shellfish	1,159	1,114	713	813	1,872	1,927
Total	3,177	3,318	4,958	4,933	8,135	8,251
Industrial fishery products:						
Finfish	2,840	2,928	(2)523	(2)631	3,363	3,559
Shellfish	11	21	(3)	(3)	11	21
Total	2,851	2,949	(2)523	(2)631	3,374	3,580
Total:						
Finfish	4,858	5,132	4,768	4,751	9,626	9,883
Shellfish	1,170	1,135	713	813	1,883	1,648
Total	6,028	6,267	5,481	5,564	11,509	11,831

See footnotes below.

VALUE OF U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1978 AND 1979

Item	Domestic commercial landings		Imports (1)		Total	
	1978	1979	1978	1979	1978	1979
	Million dollars					
Edible fishery products:						
Finfish	757	983	1,222	1,246	1,979	2,229
Shellfish	976	1,110	886	1,228	1,862	2,338
Total	1,733	2,093	2,108	2,474	3,841	4,567
Industrial fishery products:						
Finfish	114	131	(2)18	(2)31	132	162
Shellfish	7	10	(3)	(3)	7	10
Total	121	141	18	(2)31	139	172
Total:						
Finfish	871	1,114	1,240	1,277	2,111	2,391
Shellfish	983	1,120	886	1,228	1,869	2,348
Total	1,854	2,234	2,126	2,505	3,980	4,739

(1) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa.

(2) Includes only quantity and value of fish meal and sea herring for industrial purposes.

(3) Not available.

Note:--Value of domestic commercial landings is exvessel value. Value of imports generally is export value, packed ready for shipment to the United States.

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF REGULAR AND MINCED BLOCKS, 1970-79
(Edible weight)

Year	U.S. production		Imports		Total supply
	Quantity	Percentage of total supply	Quantity	Percentage of total supply	Quantity
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1970	3,892	1.4	272,655	98.6	276,547
1971	6,186	1.9	311,166	98.1	317,352
1972	3,508	1.0	355,459	99.0	358,967
1973	9,865	2.7	358,730	97.3	368,595
1974	4,417	1.6	266,073	98.4	270,490
1975	2,357	.7	313,479	99.3	315,836
1976	1,697	.4	378,742	99.6	380,439
1977	2,138	.6	385,138	99.4	387,276
1978	1,879	.5	406,286	99.5	408,165
1979	4,857	1.2	*408,152	98.8	*413,009

*Record.

U.S. SUPPLY OF ALL FILLETS AND STEAKS, 1970-79
(Edible weight)

Year	U.S. production (1)		Imports		Total supply
	Quantity	Percentage of total supply	Quantity	Percentage of total supply	Quantity
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1970	133,508	29.3	322,209	70.7	455,717
1971	128,392	31.0	285,741	69.0	414,133
1972	126,643	24.7	385,127	75.3	511,770
1973	133,359	24.1	419,663	75.9	553,022
1974	132,337	29.6	315,275	70.4	447,612
1975	128,923	25.9	367,948	74.1	496,871
1976	144,274	25.9	413,307	74.1	557,581
1977	160,644	28.8	398,110	71.2	558,754
1978	184,356	30.3	423,749	69.7	*608,105
1979	179,620	29.6	*427,526	70.4	607,146

*Record. Record U.S. production was 205,486,000 lb in 1951. (1) Includes fillets used to produce blocks.

U.S. SUPPLY OF GROUNDFISH FILLETS AND STEAKS, 1970-79
(Edible weight)

Year	U.S. production (1)		Imports		Total supply
	Quantity	Percentage of total supply	Quantity	Percentage of total supply	Quantity
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1970	42,894	18.7	186,107	81.3	229,001
1971	43,808	20.4	171,452	79.6	215,260
1972	39,266	15.5	213,255	84.5	252,521
1973	46,974	17.6	220,096	82.4	267,070
1974	45,337	21.5	165,351	78.5	210,688
1975	36,822	15.5	200,356	84.5	237,178
1976	40,564	15.1	228,287	84.9	268,851
1977	59,942	21.6	217,423	78.4	277,365
1978	65,573	22.0	233,106	78.0	298,679
1979	74,790	22.8	*252,957	77.2	*327,747

*Record. Record U.S. production was 148,786,000 lb in 1951. (1) Includes fillets used to produce blocks. Species include: cod, cusk, haddock, hake, pollock, and Atlantic ocean perch.

U.S. COMMERCIAL LANDINGS AND IMPORTS OF TUNA, 1970-79

Year	Domestic commercial landings			Imports		
	Atlantic, Gulf, Pacific Coast States, and Hawaii	Puerto Rico	Total	Fresh and frozen including cooked loins and discs (1)	Canned	
					In oil	Not in oil
	Round weight				Product weight	
	Thousand pounds					
1970	393,494	(2)84,852	478,346	464,585	153	72,109
1971	346,146	(2)128,770	474,916	506,602	1,050	58,792
1972	387,032	(2)147,668	534,700	764,784	384	56,129
1973	346,571	172,492	519,063	816,739	244	38,382
1974	392,223	165,008	557,231	838,889	233	52,513
1975	392,527	(2)*177,100	569,627	516,735	199	51,472
1976	*490,567	174,346	*664,913	641,121	288	58,605
1977	345,229	123,666	468,895	670,072	178	34,453
1978	408,878	(2)156,813	565,691	*861,803	207	51,574
1979	364,476	(2)143,676	508,152	800,178	627	53,076

(1) Includes landings in American Samoa of foreign-caught fish. (2) Includes a small quantity of fish landed in American Samoa by U.S. vessels. *Record.

U.S. SUPPLY OF CANNED TUNA, 1970-79
(Canned weight)

Year	U.S. pack from domestic commercial landings (1)		U.S. pack from imported fresh and frozen tuna (2)		Total	Imported canned		Total supply
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds		Percent	Thousand pounds
1970	203,531	39.9	234,109	45.9	437,640	72,262	14.2	509,902
1971	194,468	39.0	244,273	49.0	438,741	59,842	12.0	498,583
1972	234,000	34.6	385,796	57.0	619,796	56,513	8.4	676,309
1973	224,130	33.2	411,719	61.1	635,849	38,626	5.7	674,475
1974	249,803	35.0	410,542	57.6	660,345	52,746	7.4	713,091
1975	260,785	44.9	268,618	46.2	529,403	51,671	8.9	581,074
1976	*287,003	43.6	312,188	47.4	599,191	58,893	9.0	658,084
1977	206,805	35.5	341,204	58.6	548,009	34,631	5.9	582,640
1978	257,166	34.0	*447,627	59.2	*704,793	51,781	6.8	*756,574
1979	218,721	32.4	402,161	59.6	620,882	53,703	8.0	674,585

(1) Includes pack from landings in Puerto Rico and American Samoa by U.S. vessels. (2) Includes tuna canned in American Samoa from foreign-caught fish. *Record.

U.S. SUPPLY OF CANNED BONITO AND YELLOWTAIL, 1970-79
(Canned weight)

Year	U.S. pack		Imports				Total supply
			In oil	Not in oil	Total		
	Thousand pounds	Percent	Thousand pounds			Percent	Thousand pounds
1970	2,815	69.6	830	402	1,232	30.4	4,047
1971	5,553	68.7	1,858	667	2,525	31.3	8,078
1972	6,633	64.0	2,638	1,094	3,732	36.0	10,365
1973	10,572	88.0	544	895	1,439	12.0	12,011
1974	7,789	95.8	282	59	341	4.2	8,130
1975	13,088	99.2	68	43	111	.8	13,199
1976	3,314	96.5	64	57	121	3.5	3,435
1977	9,494	87.3	17	1,358	1,375	12.7	10,869
1978	3,576	90.2	168	220	388	9.8	3,964
1979	1,523	80.4	300	71	371	19.6	1,894

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF CANNED SARDINES, 1970-79
(Canned weight)

Year	U.S. pack	Imports			Total supply	Exports	
		Quantity					
	Quantity	In oil	Not in oil	Total		Domestic	Foreign
	Thousand pounds						
1970	18,872	34,070	12,838	46,908	65,780	1,456	97
1971	22,249	31,034	18,985	50,019	72,268	890	8
1972	36,540	41,544	28,671	70,215	106,755	3,030	311
1973	23,284	36,089	31,330	67,419	90,703	1,740	244
1974	25,131	29,408	39,729	69,137	94,268	1,691	136
1975	26,008	18,513	12,593	31,106	57,114	2,161	180
1976	24,971	26,891	26,982	53,873	78,844	1,829	77
1977	23,496	25,748	24,288	50,036	73,532	1,186	34
1978	26,376	24,231	24,486	48,717	75,093	1,555	173
1979	30,369	22,878	26,878	49,756	80,125	1,590	301

U.S. SUPPLY OF CANNED SALMON, 1969-78
(Canned weight)

Year	U.S. pack (1)		Imports		Total supply	Exports (2)	Total for U.S. consumption
	Quantity	Percentage of total	Quantity	Percentage of total			
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds		
1969	122,444	98.2	2,217	1.8	124,661	15,536	109,125
1970	183,466	98.7	2,441	1.3	185,907	16,811	169,096
1971	168,452	99.1	1,551	.9	170,003	18,233	151,770
1972	92,858	88.9	11,647	11.1	104,505	21,411	83,094
1973	71,772	90.1	7,859	9.9	79,631	16,965	62,666
1974	87,791	91.1	8,553	8.9	96,344	8,322	88,022
1975	78,086	96.0	3,265	4.0	81,351	22,558	58,793
1976	127,611	98.1	2,521	1.9	130,132	19,820	110,312
1977	150,823	99.6	586	.4	151,409	21,286	130,123
1978	164,239	99.8	325	.2	164,564	32,546	132,018

(1) Record pack was 430,328,000 lb in 1936. (2) Includes exports of domestic and foreign merchandise.

U.S. SUPPLY OF CLAM MEATS, 1970-79
(Meat weight)

Year	U.S. commercial landings					Imports (1)	Total for U.S. consumption
	Hard	Soft	Surf	Other	Total		
	Thousand pounds						
1970	16,015	12,908	67,318	2,963	99,204	4,956	104,160
1971	16,666	12,652	52,535	2,636	84,489	3,447	87,936
1972	16,153	9,078	63,471	1,987	90,689	5,128	95,817
1973	14,505	8,627	82,370	2,038	107,540	4,254	111,794
1974	14,665	9,590	96,110	1,328	121,693	4,913	126,606
1975	14,995	9,174	86,956	2,262	113,387	2,435	115,822
1976	15,251	10,467	49,158	7,656	82,532	6,705	89,237
1977	15,433	10,683	51,036	19,008	96,160	8,423	104,583
1978	13,295	10,091	39,237	25,088	87,711	6,131	93,842
1979	12,058	8,585	34,912	36,495	92,050	7,273	99,323

(1) Imports were converted to meat weight by using these conversion factors: 0.40 for in shell or shucked; 0.30 for canned chowder and juice; and 0.93 for other.

U.S. SUPPLY OF KING CRAB, 1970-79
(Round weight)

Year	U.S. commercial landings	Exports (1)	
		Domestic	Canned
	Thousand pounds		
1970	52,061	(2)	1,066
1971	70,703	(2)	213
1972	94,245	(2)	112
1973	76,824	8,278	8,123
1974	95,214	4,431	3,768
1975	97,626	4,746	2,377
1976	105,899	7,173	1,972
1977	99,449	17,819	1,428
1978	130,238	52,966	2,462
1979	154,589	63,383	4,616

(1) Does not include U.S. exports of foreign merchandise. Exports were converted to round weight by using these conversion factors: domestic--fresh and frozen, 1.75; and canned 5.33.
(2) Data not available.

U.S. SUPPLY OF SNOW (TANNER) CRABS, 1970-79
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports fresh and frozen (2)
	Thousand pounds			
1970	14,473	(3)	14,473	(3)
1971	12,880	(3)	12,880	(3)
1972	46,010	(3)	46,010	(3)
1973	61,719	(3)	61,719	(3)
1974	63,906	(3)	63,906	(3)
1975	46,856	(3)	46,856	(3)
1976	80,771	(3)	80,771	(3)
1977	98,329	(3)	98,329	47,045
1978	129,506	4,460	133,966	67,530
1979	*131,393	4,255	135,648	91,543

(1) Imports were converted to round (live) weight by multiplying canned weight by 5.00.
(2) Exports were converted to round (live) weight by multiplying fresh and frozen weight by 2.13 (believed to be mostly sections). Data for foreign exports not available.
(3) Data not reported separately.
*Record.

U.S. SUPPLY OF CANNED CRABMEAT, 1970-79
(Canned weight)

Year	U.S. pack	Percentage of total	Imports	Percentage of total	Total	Exports (1)
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds	Thousand pounds
1970	5,097	64.8	2,765	35.2	7,862	200
1971	3,213	46.3	3,723	53.7	6,936	40
1972	2,513	49.7	2,547	50.3	5,060	21
1973	3,724	65.6	1,956	34.4	5,680	1,524
1974	4,358	64.8	2,371	35.2	6,729	707
1975	3,283	69.5	1,440	30.5	4,723	446
1976	3,811	65.0	2,054	35.0	5,865	370
1977	5,013	59.1	3,463	40.9	8,476	268
1978	4,986	55.2	4,053	44.8	9,039	462
1979	4,707	48.1	5,073	51.8	9,788	866

(1) King crab only. Record production was 11,002,000 lb in 1966; record imports, 13,507,000 lb in 1939.

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF AMERICAN LOBSTERS, 1970-79
(Round weight)

Year	U.S. commercial landings		Imports (1)				Total supply
			Quantity			Percentage of total supply	
	Quantity	Percentage of total supply	Fresh and frozen	Canned	Total		
	Thousand pounds	Percent	- - - Thousand pounds - - -			Percent	Thousand pounds
1970	34,152	53.1	19,124	11,048	30,172	46.9	64,324
1971	33,688	49.4	23,894	10,635	*34,529	50.6	68,217
1972	32,244	52.8	18,811	10,032	28,843	47.2	61,087
1973	28,991	52.9	18,113	7,656	25,769	47.1	54,760
1974	28,543	53.3	17,586	7,392	24,978	46.7	53,521
1975	30,200	52.3	18,325	9,243	27,568	47.7	57,768
1976	31,483	52.3	19,176	9,531	28,707	47.7	60,190
1977	31,708	49.0	16,944	16,068	33,012	51.0	64,720
1978	34,419	55.9	16,468	10,648	27,116	44.1	61,535
1979	*37,184	54.5	22,790	8,307	31,097	45.5	*68,281

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 4.50, meat; and 4.64, canned. *Record.

U.S. SUPPLY OF SPINY LOBSTERS, 1970-79
(Round weight)

Year	U.S. commercial landings		Imports (1)				Total supply
			Quantity			Percentage of total supply	
	Quantity	Percentage of total supply	Fresh and frozen	Canned	Total		
	Thousand pounds	Percent	- - - Thousand pounds - - -			Percent	Thousand pounds
1970	10,345	7.9	119,756	459	120,215	92.1	130,560
1971	8,941	6.2	133,974	473	134,447	93.8	143,388
1972	*12,215	8.0	139,802	428	140,230	92.0	152,445
1973	11,432	8.5	123,219	603	123,822	91.5	135,254
1974	11,708	8.1	132,158	428	132,586	91.9	144,294
1975	7,613	5.1	142,280	504	142,784	94.9	150,397
1976	5,643	3.2	164,859	3,536	*168,395	96.8	*174,038
1977	5,483	3.5	149,156	1,517	150,673	96.5	156,156
1978	4,629	3.1	143,945	563	144,508	96.9	149,137
1979	6,301	4.0	150,470	604	151,074	96.0	157,375

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 3.00, tails; 4.35, other; and 4.50, canned. *Record.

U.S. SUPPLY OF OYSTERS, 1970-79
(Meat weight)

Year	U.S. commercial landings				Imports (1)	Total for U.S. consumption
	Eastern	Pacific	Western	Total		
	Thousand pounds					
1970	45,628	7,915	59	53,602	20,962	74,564
1971	49,838	8,048	52	57,938	17,519	75,457
1972	47,667	8,362	29	56,058	30,893	86,951
1973	45,333	6,576	22	51,931	26,351	78,282
1974	45,125	5,030	21	50,176	23,634	73,810
1975	47,398	5,807	22	53,227	20,542	73,769
1976	48,010	6,354	31	54,395	23,682	78,077
1977	40,436	5,590	(2)	46,026	29,774	75,796
1978	45,183	5,800	(2)	50,983	33,843	84,791
1979	42,325	5,756	(2)	48,081	27,131	75,212

(1) Imports were converted to meat weight by using these conversion factors: 0.93, canned; 3.12, canned smoked; and 0.75 for other. (2) Not available.

U.S. SUPPLY OF SCALLOP MEATS, 1970-79
(Edible weight)

Year	U.S. commercial landings				Imports	Total for U.S. consumption
	Bay	Calico	Sea	Total		
	Thousand pounds					
1970	1,700	1,833	7,304	10,837	16,830	27,667
1971	2,315	1,574	6,337	10,226	17,389	27,615
1972	2,032	1,352	7,017	10,401	20,820	31,221
1973	1,014	558	6,400	7,972	19,833	27,805
1974	1,499	1,131	6,444	9,074	18,100	27,174
1975	1,648	1,992	10,063	13,703	19,737	33,440
1976	1,590	2,268	19,853	23,711	25,253	48,964
1977	1,703	1,111	25,012	27,826	*29,786	57,612
1978	1,371	948	30,976	33,295	28,367	*61,662
1979	1,774	863	31,466	*34,103	25,155	59,258

*Record.

U.S. SUPPLY OF ALL FORMS OF SHRIMP, 1970-79
(Heads-off weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)			
				Fresh and frozen		Canned	
				Domestic	Foreign	Domestic	Foreign
	Thousand pounds						
1970	224,272	247,130	471,402	35,105	*14,699	12,274	126
1971	238,073	215,073	453,146	35,404	10,475	16,835	-
1972	235,852	254,534	490,386	34,201	6,095	17,069	20
1973	228,643	230,780	459,423	*44,172	10,212	*20,097	106
1974	224,677	267,462	492,139	32,719	6,383	13,908	91
1975	209,151	230,963	440,114	33,132	6,586	12,570	10
1976	245,597	*270,720	516,316	27,489	9,138	15,693	*181
1977	*288,443	270,406	*558,849	30,785	8,902	18,111	121
1978	256,882	239,044	495,926	41,065	13,308	12,088	146
1979	205,587	267,119	472,706	34,143	5,826	11,047	63

(1) Imports were converted to heads-off weight by using these conversion factors: 0.63, breaded; 1.00, shell-on; 1.28 peeled raw; 2.02, canned; and 2.40 for other. (2) Exports were converted to heads-off weight by using these conversion factors: domestic--fresh and frozen, 1.18 and canned, 2.02; foreign--fresh and frozen, 1.00 and canned, 2.52. *Record.

U.S. SUPPLY OF CANNED SHRIMP, 1970-79
(Canned weight)

Year	U.S. pack	Percentage of total	Imports	Percentage of total	Total	Exports	
						Domestic	Foreign
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds		
1970	25,125	86.6	3,876	13.4	*29,001	6,076	50
1971	22,345	89.1	2,742	10.9	25,087	8,334	-
1972	23,795	95.5	1,123	4.5	24,918	8,450	8
1973	*25,228	89.3	3,027	10.7	28,255	*9,949	42
1974	22,121	78.4	*6,107	21.6	28,228	6,885	36
1975	12,407	91.7	1,118	8.3	13,525	6,223	4
1976	19,041	89.0	2,350	11.0	21,391	7,769	72
1977	24,525	89.7	2,809	10.3	27,334	8,966	48
1978	16,806	86.0	2,739	14.0	19,545	5,984	58
1979	10,422	70.9	4,288	29.1	14,710	5,469	25

*Record.

U.S. SUPPLY OF FISH MEAL AND SOLUBLES, 1970-79
(Product weight)

Year	U.S. production (1)		Imports		Total
	Short tons	Percent	Short tons	Percent	Short tons
1970	316,681	55.7	251,729	44.3	568,410
1971	348,406	55.2	283,277	44.8	631,683
1972	352,704	47.4	391,998	52.6	744,702
1973	356,235	83.8	68,651	16.2	424,886
1974	369,344	84.4	68,307	15.6	437,651
1975	354,356	75.0	118,395	25.0	472,751
1976	376,248	72.7	140,988	27.3	517,236
1977	343,456	80.7	81,901	19.3	425,357
1978	*444,182	91.0	(2)43,901	9.0	488,083
1979	441,282	83.1	(2)89,613	16.9	530,895

(1) Includes shellfish meal production.
(2) Data do not include imports of fish solubles for 1978 and 1979.
Note:--Wet weight of solubles has been converted to dry weight by reducing its poundage by one-half. *Record. Record imports in 1968, 856,172 short tons and total supply, 1,127,225 short tons.

U.S. SUPPLY OF FISH MEAL, 1970-79
(Product weight)

Year	Domestic production (1)	Imports	Total supply	Exports (2)	Total for U.S. consumption
			Short tons		
1970	269,197	251,492	520,689	4,724	515,965
1971	292,812	283,249	576,061	10,594	565,467
1972	285,506	391,955	677,461	18,869	658,592
1973	287,517	68,496	356,013	45,745	310,268
1974	300,714	68,297	369,011	55,522	313,489
1975	290,431	118,371	408,802	12,475	396,327
1976	309,694	140,377	450,071	33,322	416,749
1977	282,291	81,491	363,782	37,199	326,583
1978	362,910	43,901	406,811	54,633	352,178
1979	*373,818	89,613	463,431	16,456	446,975

(1) Includes shellfish meal. (2) Includes exports of domestic and foreign fish meal. *Record. Record imports in 1968, 855,285 short tons; total supply and total for U.S. consumption, 1,090,421 short tons.

U.S. SUPPLY OF FISH SOLUBLES, 1970-79
(Product weight)

Year	U.S. production		Imports (1)		Total
	Short tons	Percent	Short tons	Percent	Short tons
1970	94,968	99.5	474	.5	95,442
1971	111,188	99.9	56	.1	111,244
1972	134,395	99.9	85	.1	134,480
1973	137,435	99.8	309	.2	137,744
1974	137,259	99.9	19	(2)	137,278
1975	127,850	99.9	48	(2)	127,898
1976	133,107	99.1	1,221	.9	134,328
1977	122,330	99.3	820	.7	123,150
1978	162,543	100.0	(3)	-	162,543
1979	134,928	100.0	(3)	-	134,928

(1) Includes only fish solubles and will not check with other tables that show total imports of fish solubles and cod-liver solubles for years 1970 to 1977. (2) Less than one-tenth of 1 percent. (3) Data no longer reported separately by the Bureau of the Census.
Note:--Record U.S. production in 1959, 165,359 short tons; imports, 26,630 short tons; and total supply, 191,989 short tons.

SUPPLY OF FISHERY PRODUCTS

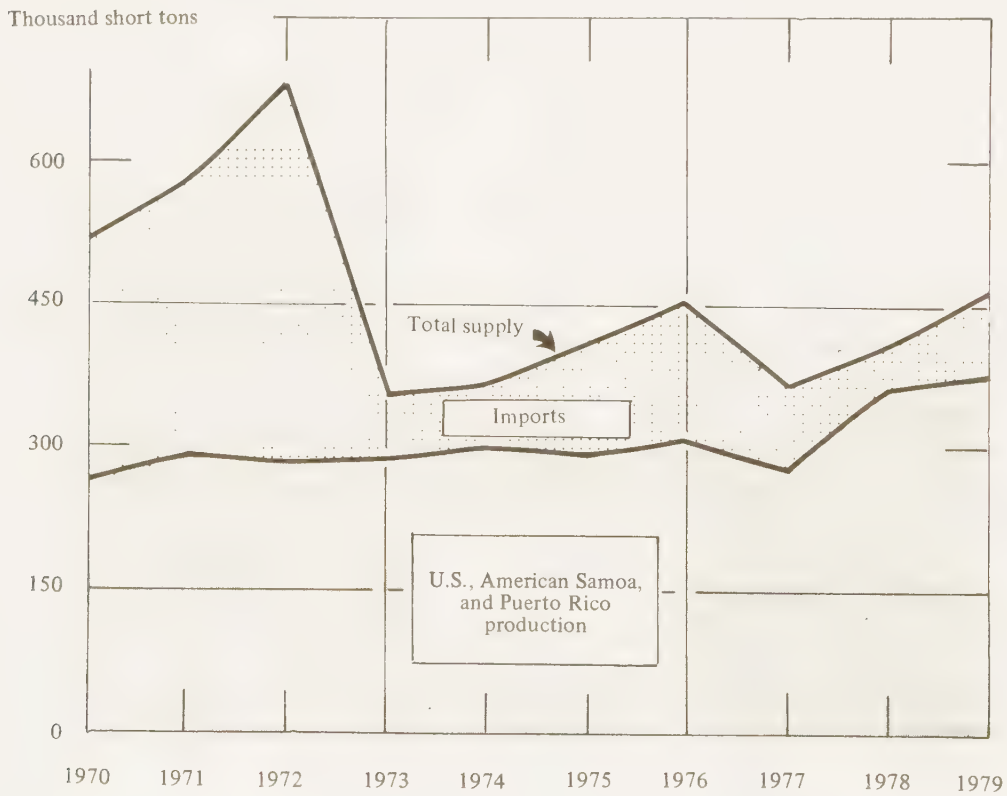
U.S SUPPLY OF FISH OILS, 1970-79

Year	Domestic production	Imports	Total supply	Exports	Total for U.S. consumption
			Thousand pounds		
1970	205,404	5,544	210,948	158,787	52,161
1971	265,032	7,512	272,544	229,898	42,646
1972	188,445	9,466	197,911	193,198	4,713
1973	224,634	6,733	231,367	247,793	(1)
1974	237,980	12,356	250,336	199,122	51,214
1975	245,653	11,283	256,936	191,843	65,093
1976	204,581	20,937	225,518	179,235	46,283
1977	133,182	13,731	146,913	90,633	56,280
1978	296,287	16,041	312,328	222,012	90,316
1979	267,661	14,463	282,124	198,497	83,627

(1) Total for U.S. consumption was a negative (-)16,426,000 lb because of withdrawal of stocks from storage.

Note:--Excludes whale and sperm oils. Does not include exports of foreign merchandise. Record U.S. production in 1936 was 299,265,000 lb.

U.S. SUPPLY OF FISH MEAL, 1970-79
(Domestic Production Plus Imports)



PURCHASES OF FRESH, FROZEN, AND CANNED FISHERY PRODUCTS, BY DEFENSE SUBSISTENCE SUPPLY CENTERS, 1970-79

Year	Fresh and frozen		Canned	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1970	18,419	16,734	8,135	17,966
1971	17,884	18,895	10,920	15,243
1972	17,605	21,806	17,932	35,101
1973	14,281	18,141	4,350	3,852
1974	12,802	14,507	5,495	6,572
1975	13,769	21,640	6,317	3,816
1976	9,875	21,817	6,039	6,429
1977	10,463	22,652	4,250	7,599
1978	12,476	25,912	5,716	8,709
1979	22,536	52,769	6,972	12,143

Note:--Armed Forces installations generally make some local purchases not included in the above data.

Source:--U.S. Department of Defense.

PURCHASES OF PRINCIPAL FRESH AND FROZEN FISHERY PRODUCTS, BY DEFENSE SUBSISTENCE SUPPLY CENTERS, 1978 AND 1979

Product	1978	1979
	Thousand pounds	
Shrimp:		
Raw headless	205	421
Peeled and deveined	671	1,047
Breaded	2,945	3,988
Total	3,821	5,456
Scallops	537	691
Spiny lobster tails	400	683
Oysters:		
Eastern	353	384
Pacific	83	40
Total	436	424
Fillets:		
Cod	96	323
Flounder	720	1,328
Haddock	1,297	2,955
Ocean perch	157	385
Fish sticks	412	1,002
Portions:		
Haddock-cod-lingcod	1,453	3,027
Flounder-perch-pollock	2,560	5,212
Steaks:		
Halibut	298	355
Salmon	46	66

Note:--Armed Forces installations generally make some local purchases not included in the above data.

Source:--U.S. Department of Defense.

PRICES

INDEXES OF EXVESSEL PRICES

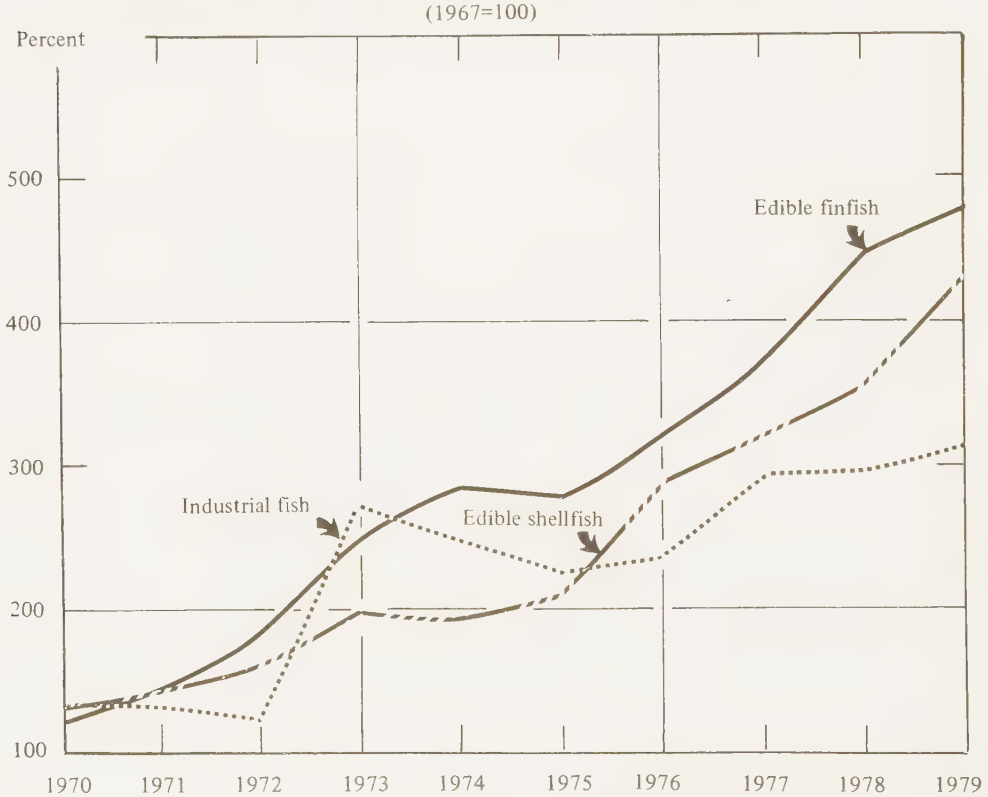
The tables that follow show indexes of exvessel prices prepared by the National Marine Fisheries Service. Most of the prices used in calculating the "Indexes of Exvessel Prices for Fish and Shellfish" are based on monthly landings and value data. In a few cases, prices are obtained from Fishery Market News Reports and Market News Offices. The index for each species is calculated by multiplying the current monthly price by the total quantity caught in 1967 (the base year) to obtain a value for the current month. That value is then divided by the 1967 average monthly value to obtain the final index:

$$\frac{\text{(Current price X 1967 quantity)}}{\text{1967 average monthly value}} = \text{Index for each species}$$

To calculate the index for salmon, tuna, New England finfish, and other shellfish, the current monthly values for each of these species are added together and divided by the aggregate 1967 average monthly values for the group. To calculate monthly indexes for edible finfish, edible shellfish, edible fish, industrial fish, and all fish, the index number for each species is multiplied by a factor representing its importance in the total exvessel value of all species of fish and shellfish for the period 1966-70; the sum of these products is the index number for the group of species.

Each index number calculated for years other than the base year of 1967 measures price changes from the reference period (1967) which equals 100. An increase of 85 percent from the reference period in the index, for example, is shown as 185.0. This change can also be expressed in dollars, as follows: The price of a species of fish that sold in the United States for $1.00 per pound in 1967 has increased to $1.85 per pound.

INDEXES OF EXVESSEL PRICES UNDER FISHERY MANAGEMENT PLANS, 1970-79
(1967=100)



EXVESSEL

INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY YEARS, 1974-79
(1967=100)

Species or group	1974	1975	1976	1977	1978 (1)	1979 (2)
New England finfish:						
Cod	228.6	285.2	312.5	284.6	287.5	335.6
Haddock	248.8	232.5	290.2	246.8	241.0	299.7
Yellowtail flounder	251.1	339.8	497.6	432.4	558.2	497.6
Other flounders	210.3	254.2	381.0	278.3	352.6	348.4
Ocean perch	209.3	263.0	347.1	391.5	440.1	544.3
Pollock	201.4	227.7	255.9	267.9	307.4	376.8
Whiting	166.3	193.3	180.8	213.6	307.6	366.0
New England finfish	229.7	260.2	374.3	298.9	343.9	374.3
Red snapper	213.5	237.3	275.5	330.8	389.0	455.7
Pacific halibut	286.8	332.6	463.3	494.8	550.6	674.6
Salmon:						
Chinook - troll	217.0	210.6	312.7	404.4	401.2	468.4
Chinook - nontroll	295.2	203.0	369.0	564.2	548.9	642.6
Chum	553.2	436.8	564.2	664.6	738.8	815.3
Coho - troll	227.6	214.9	287.1	330.2	346.2	454.7
Coho - nontroll	348.7	292.3	370.0	478.0	538.5	507.4
Pink	432.3	353.7	275.1	378.6	402.8	350.4
Sockeye	447.8	447.8	452.4	490.4	781.8	819.1
Salmon	373.2	336.6	380.9	459.0	572.6	615.4
Tuna:						
Albacore	218.1	197.8	246.0	286.0	316.3	338.1
Skipjack	241.2	220.1	246.6	316.8	353.4	355.0
Bluefin	206.9	203.2	225.6	285.7	323.9	346.0
Yellowfin	202.2	189.5	209.5	268.6	297.8	315.6
Tuna	216.9	200.5	228.6	286.8	318.8	332.9
Edible finfish	287.0	276.3	319.7	370.7	448.3	476.5
Shrimp	172.5	218.5	298.0	301.5	313.1	447.2
Other shellfish:						
Hard clams	173.8	171.6	204.5	229.1	265.7	330.4
Soft clams	212.3	236.4	310.2	342.7	364.7	432.8
Surf clams	136.8	136.7	482.6	517.7	521.7	527.6
Hard blue crabs	215.5	291.4	383.9	440.5	372.3	357.5
King crabs	573.4	340.2	659.6	923.1	1,267.0	1,283.1
American lobsters	182.6	206.0	216.3	245.1	264.3	262.8
Eastern oysters	109.0	119.8	152.5	173.6	171.1	186.1
Sea scallops	200.5	239.4	247.2	216.0	327.2	441.0
Other shellfish	213.0	199.3	281.6	336.6	393.7	418.4
Edible shellfish	193.2	208.7	289.7	319.4	354.2	432.5
Edible fish	237.5	240.7	303.9	343.7	398.7	453.3
Industrial fish	255.7	224.4	234.8	292.6	293.6	309.3
Menhaden	255.7	224.4	234.8	292.6	293.6	309.3
All fish	238.7	239.6	299.1	340.1	391.4	443.4

(1) Revised.
(2) Preliminary.

Note:--Simple averages of the 12 monthly indexes. Upward or downward changes in this index will not necessarily agree with changes in unit values shown in landings tables.

PRICES

EXVESSEL

INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY MONTHS, 1979
(1967=100)

Species or group	Jan.	Feb.	Mar.	Apr.	May	June
New England finfish:						
Cod	419.9	564.2	339.0	293.3	219.4	212.3
Haddock	303.1	410.2	304.7	244.6	229.8	215.8
Yellowtail flounder	574.8	916.7	503.5	440.3	387.1	474.6
Other flounders	392.8	545.7	309.4	245.7	205.8	316.7
Ocean perch	519.7	619.1	568.1	545.2	491.7	501.9
Pollock	433.2	681.9	521.1	389.1	282.6	294.4
Whiting	356.2	271.4	273.6	201.5	411.4	644.6
New England finfish	403.7	548.5	367.5	309.1	291.7	339.9
Red snapper	388.8	436.0	536.0	477.7	483.2	452.7
Pacific halibut	637.0	637.0	637.0	637.0	667.0	750.2
Salmon:						
Chinook - troll	392.4	392.4	392.4	392.4	371.2	487.8
Chinook - nontroll	369.0	922.5	922.5	645.7	645.7	645.7
Chum	873.5	873.5	873.5	873.5	873.5	873.5
Coho - troll	355.1	355.1	355.1	355.1	355.1	355.1
Coho - nontroll	219.8	549.5	549.5	549.5	549.5	219.8
Pink	353.7	353.7	353.7	353.7	353.7	275.1
Sockeye	959.5	959.5	959.5	959.5	959.5	916.8
Salmon	597.5	671.7	671.7	647.1	645.1	605.7
Tuna:						
Albacore	322.5	322.5	322.5	322.5	322.5	322.5
Skipjack	342.6	334.5	333.6	336.3	340.8	347.1
Bluefin	325.5	325.5	325.5	325.5	338.3	336.6
Yellowfin	298.0	298.0	299.5	302.3	305.1	310.1
Tuna	317.1	314.8	315.2	317.3	320.4	324.4
Edible finfish	467.4	530.0	493.1	469.7	467.3	465.8
Shrimp	360.4	411.4	414.3	478.4	500.5	523.8
Other shellfish:						
Hard clams	345.1	344.5	341.4	265.0	294.9	266.0
Soft clams	427.8	410.4	422.1	354.9	386.7	394.6
Surf clams	444.5	411.6	480.4	489.7	592.3	599.5
Hard blue crabs	479.0	567.0	548.4	399.4	372.3	333.4
King crabs	1,504.2	1,504.2	1,504.2	,504.2	1,504.2	1,504.2
American lobsters	365.7	368.5	393.0	308.4	239.8	246.9
Eastern oysters	163.7	201.2	158.3	182.0	211.3	192.6
Sea scallops	408.9	469.8	426.3	421.9	374.6	383.0
Other shellfish	466.9	488.3	477.9	444.6	443.5	433.4
Edible shellfish	414.7	450.6	446.7	461.2	471.4	477.7
Edible fish	439.6	488.2	468.6	465.2	469.5	472.1
Industrial	242.7	242.7	242.7	327.7	342.3	356.8
Menhaden	242.7	242.7	242.7	327.7	342.3	356.8
All fish	426.0	471.3	453.0	455.7	460.7	464.1

(Continued)

EXVESSEL

INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY MONTHS, 1979 - Continued
(1967=100)

Species or group	July	Aug.	Sept.	Oct.	Nov.	Dec.
New England finfish:						
Cod	269.8	314.4	306.1	342.5	294.4	451.6
Haddock	282.5	265.2	304.7	322.9	303.1	409.3
Yellowtail flounder	454.8	525.1	510.7	456.6	338.4	388.9
Other flounders	403.6	435.5	405.8	351.5	242.0	326.1
Ocean perch	532.4	524.8	537.5	545.2	540.1	606.3
Pollock	333.4	302.8	314.6	368.9	281.0	318.1
Whiting	451.7	498.3	426.2	377.5	258.7	220.5
New England finfish	367.3	386.6	387.9	377.8	315.1	396.9
Red snapper	447.1	444.4	424.9	449.9	455.5	472.1
Pacific halibut	750.2	760.8	707.7	637.0	637.0	637.0
Salmon:						
Chinook - troll	487.8	583.3	530.2	530.2	530.2	530.2
Chinook - nontroll	645.7	682.6	627.3	461.2	571.9	571.9
Chum	873.5	873.5	698.8	698.8	698.8	698.8
Coho - troll	558.4	563.3	551.0	551.0	551.0	551.0
Coho - nontroll	329.7	505.5	725.3	681.3	527.5	681.4
Pink	275.1	353.7	353.7	392.9	392.9	392.9
Sockeye	916.8	639.7	639.7	639.7	639.7	639.7
Salmon	649.1	593.7	583.3	570.8	569.0	580.7
Tuna:						
Albacore	322.5	348.9	348.9	367.4	367.4	367.4
Skipjack	351.6	365.0	371.3	374.9	381.2	381.2
Bluefin	343.8	354.9	369.2	369.2	369.2	369.2
Yellowfin	313.7	324.3	329.3	332.1	337.1	337.1
Tuna	327.6	342.4	347.1	353.3	357.4	357.4
Edible finfish	490.4	476.7	471.2	463.2	450.2	473.2
Shrimp	498.6	444.7	438.0	450.7	430.2	415.0
Other shellfish:						
Hard clams	284.6	376.9	341.6	356.0	359.6	389.4
Soft clams	423.2	501.5	517.8	442.2	478.6	434.3
Surf clams	607.7	600.5	589.2	598.4	538.9	378.8
Hard blue crabs	340.2	291.1	270.8	220.0	230.2	238.6
King crabs	1,504.2	1,504.2	918.8	820.5	812.0	812.0
American lobsters	183.8	191.1	194.8	217.8	206.1	237.8
Eastern oysters	185.2	176.1	176.8	189.4	197.6	198.9
Sea scallops	426.9	446.9	476.6	484.8	478.9	493.4
Other shellfish	425.7	436.6	356.1	348.3	347.0	351.9
Edible shellfish	461.4	440.6	396.2	398.5	387.8	382.8
Edible fish	475.1	457.7	431.7	429.1	417.3	425.6
Industrial fish	347.9	358.9	350.4	339.0	333.4	226.6
Menhaden	347.9	358.9	350.4	339.0	333.4	226.6
All fish	466.3	450.9	426.1	422.9	411.5	411.9

Note:--Data are preliminary. Monthly prices for species representing about 70 percent of the landed value of all fish and shellfish during recent years have been combined into index groups to indicate movement of exvessel prices.

WHOLESALE

AVERAGE WHOLESALE PRICES FOR EDIBLE FISH AND SHELLFISH, BY MONTHS, 1979

Group, subgroup, and item specification	Point of pricing	Unit	Jan.	Feb.	Mar.	Apr.	May	June
			- - - - - - - - Dollars - - - - - - - -					
FRESH AND FROZEN FISHERY PRODUCTS:								
Haddock, large, offshore, drawn, fresh.	Boston	lb	0.60	0.91	0.50	0.81	0.57	0.40
Halibut, west., 20-80 lb, dressed, fresh and frozen. . . .	New York	lb	2.60	2.60	2.60	2.60	2.60	2.60
Salmon, king, large and medium, dressed, fresh and frozen. . . .	New York	lb	4.00	4.00	4.00	4.00	4.00	4.00
Whitefish, Lake Superior, drawn, fresh.	Chicago	lb	1.38	2.25	2.15	2.40	1.53	1.15
Yellow pike, Lakes Michigan and Huron, round, fresh.	New York	lb	1.45	1.75	2.00	2.25	1.75	1.45
PROCESSED, FRESH (fish and shellfish):								
Fillets, haddock, small, skin on, 20-lb tins	Boston	lb	1.85	2.50	1.63	2.43	1.73	1.40
Shrimp, large (26-30 count), headless, fresh.	New York	lb	4.60	4.80	4.80	4.80	5.40	6.00
Oysters, shucked, standards . . .	Norfolk	gal	16.75	16.75	16.75	16.50	16.75	17.00
PROCESSED, FROZEN (fish and shellfish):								
Fillets: Cod, skinless, Canadian, 1-lb package	Boston	lb	.99	.99	1.00	1.00	1.00	1.00
Flounder, skinless, 1-lb package	Boston	lb	1.34	1.40	1.46	1.46	1.46	1.52
Ocean perch, large, skin on, 1-lb package	Boston	lb	1.01	1.02	1.10	1.10	1.10	1.15
Shrimp, large (26-30 count), brown, 5-lb package.	Chicago	lb	4.38	4.95	5.08	5.20	5.70	6.10
Shrimp, raw, breaded (15-20 count), 4-lb package	Selected areas	lb	3.36	3.54	3.64	3.77	3.84	4.05
Fish blocks, cod, raw, 13-1/2 - 16-lb carton	Selected areas	lb	1.01	.99	1.00	1.03	1.05	1.06
Fish sticks, cod, precooked, breaded, 1/2-1-lb package. . . .	Selected areas	lb	1.21	1.21	1.21	1.21	1.21	1.22
Fish portions, cod, raw, breaded, 6-lb package.	Selected areas	lb	1.16	1.17	1.18	1.18	1.21	1.24
CANNED FISHERY PRODUCTS:								
Salmon, pink, No. 1 tall, (16-oz) 48 cans/case	Seattle	case	64.00	64.00	64.00	67.00	67.00	70.00
Tuna, light meat, chunk, No. 1/2 (6-1/2-oz) 48 cans/case. . . .	Los Angeles	case	31.75	31.75	32.00	32.00	32.50	32.75
Sardines, Maine, keyless, oil, 1/4 drawn (3-3/4-oz) 100 cans/case.	New York	case	32.10	32.10	32.10	32.10	32.10	32.10

(Continued)

WHOLESALE

AVERAGE WHOLESALE PRICES FOR EDIBLE FISH AND SHELLFISH, BY MONTHS, 1979 - Continued

Group, subgroup, and item specification	Point of pricing	Unit	July	Aug.	Sept.	Oct.	Nov.	Dec.
			- - - - - - - - Dollars - - - - - - - -					
FRESH AND FROZEN FISHERY PRODUCTS:								
Haddock, large, offshore, drawn, fresh.	Boston	lb	0.85	0.55	0.50	0.77	0.55	0.75
Halibut, western, 20-80 lb, dressed, fresh or frozen	New York	lb	2.60	2.60	2.60	2.60	2.60	2.60
Salmon, king, large and medium, dressed, fresh or frozen	New York	lb	4.00	4.00	1.85	1.84	1.85	1.85
Whitefish, Lake Superior, drawn, fresh.	Chicago	lb	1.10	1.08	1.63	1.25	1.38	1.50
Yellow pike, Lakes Michigan and Huron, round, fresh.	New York	lb	1.65	1.65	1.75	1.75	1.65	1.88
PROCESSED, FRESH (fish and shellfish):								
Fillets, haddock, small, skin on, 20-lb tins	Boston	lb	2.45	1.73	1.63	2.23	1.83	1.83
Shrimp, large (26-30 count), headless, fresh.	New York	lb	6.10	5.50	5.50	5.75	5.30	5.00
Oysters, shucked, standards . . .	Norfolk	gal	17.00	17.75	17.75	18.50	18.50	18.50
PROCESSED, FROZEN (fish and shellfish):								
Fillets: Cod, skinless, 1-lb package	Boston	lb	.99	.99	.97	.96	.96	1.00
Flounder, skinless, 1-lb package	Boston	lb	1.52	1.52	1.58	1.58	1.58	1.58
Ocean perch, large, skin on, 1-lb package.	Boston	lb	1.15	1.15	1.15	1.15	1.15	1.15
Shrimp, large (26-30 count), brown, 5-lb package.	Chicago	lb	5.83	5.73	5.55	5.70	5.55	5.50
Shrimp, raw, breaded (15-20 count), 4-lb package	Selected areas	lb	4.05	4.06	4.11	4.11	4.14	4.12
Fish blocks, cod, raw, 13-1/2 - 16-lb carton	Selected areas	lb	1.08	1.08	1.08	1.06	1.07	1.04
Fish sticks, cod, precooked, breaded, 1/2 - 1-lb package. . .	Selected areas	lb	1.22	1.23	1.24	1.25	1.25	1.25
Fish portions, cod, raw, breaded, 6-lb package	Selected areas	lb	1.24	1.24	1.24	1.24	1.24	1.24
CANNED FISHERY PRODUCTS:								
Salmon, pink, No. 1 tall (16-oz) 48 cans/case	Seattle	case	70.00	74.00	74.00	74.00	74.00	78.00
Tuna, light meat, chunk, No. 1/2 (6-1/2-oz) 48 cans/case.	Los Angeles	case	34.00	34.00	35.50	35.50	36.00	37.00
Sardines, Maine, keyless, oil, 1/4 drawn (3-3/4-oz) 100 cans/case	New York	case	32.10	32.10	32.10	32.10	32.10	32.10

Note:--These are average prices for 1 day (Monday, Tuesday, or Wednesday) during the week in which the 13th of the month occurs. These prices are published as indicators of movement and not necessarily absolute level. Fishery Market News Reports should be referred to for actual prices. (See page 106 for information on these reports, and how they can be obtained.)

Source:--U.S. Department of Labor, Bureau of Labor Statistics.

WHOLESALE

WHOLESALE PRICE INDEXES FOR EDIBLE FISH AND SHELLFISH, BY MONTHS, 1979

Group	Jan.	Feb.	Mar.	Apr.	May	June
	- - - - - - - - - Index (1967=100) - - - - - - - - -					
All fish and shellfish (fresh, frozen, and canned)	351.0	371.0	367.8	377.9	383.2	393.0
Fresh and frozen fishery products	387.3	413.5	409.1	422.0	428.1	440.6
Drawn, dressed, or whole finfish	474.2	500.3	483.5	499.6	475.8	463.0
Processed, fresh (fish and shellfish)	367.5	396.7	374.2	394.3	414.1	443.6
Processed, frozen (fish and shellfish)	345.5	371.0	380.2	389.0	409.1	431.6
Canned fishery products	265.2	265.2	266.3	266.8	270.0	271.7

Group	July	Aug.	Sept.	Oct.	Nov.	Dec.
	- - - - - - - - Index (1967=100) - - - - - - - -					
All fish and shellfish (fresh, frozen, and canned)	399.5	388.5	390.4	397.3	391.5	392.2
Fresh and frozen fishery products	446.8	432.5	432.4	441.3	431.2	429.8
Drawn, dressed, or whole finfish	479.5	467.7	474.8	477.6	472.5	482.4
Processed, fresh (fish and shellfish)	476.2	422.3	419.8	452.3	414.0	395.3
Processed, frozen (fish and shellfish)	422.7	419.9	416.1	421.1	417.1	414.6
Canned fishery products	279.7	279.7	289.4	289.4	299.0	307.5

Source:--U.S. Department of Labor, Bureau of Labor Statistics.

RETAIL

RETAIL PRICES OF FISHERY PRODUCTS, BY MONTHS, 1979

ITEM	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	Dollars per pound											
FRESH												
Cod fillets	2.57	2.63	2.39	2.72	2.11	2.38	2.38	2.23	1.90	2.28	2.44	2.23
Flounder fillets	2.78	3.18	3.43	2.42	2.69	3.15	3.23	2.99	2.58	2.59	2.84	2.41
Haddock fillets	3.13	3.22	3.01	2.32	2.38	2.19	2.52	2.13	1.99	2.92	2.09	3.18
Ocean perch fillets	1.73	2.43	2.55	2.35	2.81	2.23	2.55	2.33	2.11	1.78	1.99	1.93
Sole fillets	2.92	3.31	3.11	3.19	3.62	3.30	3.22	3.51	3.34	3.26	3.15	3.26
RAW FROZEN												
Cod fillets, 1 lb pkg	1.86	1.93	1.94	1.93	1.95	2.03	1.95	2.02	1.98	2.03	2.11	2.07
Flounder fillets, 1 lb pkg	2.31	2.46	2.39	2.49	2.59	2.60	2.64	2.63	2.71	2.64	2.76	2.79
Haddock fillets, 1 lb pkg	2.13	2.15	2.17	2.19	2.22	2.27	2.26	2.31	2.35	2.43	2.58	2.44
Halibut steaks	4.58	4.88	4.79	4.74	4.90	4.89	4.96	4.90	5.88	5.78	5.67	6.21
Ocean perch fillets, 1 lb pkg	1.84	1.88	1.92	1.94	2.01	2.07	2.13	2.10	2.11	2.16	2.14	2.16
Turbot fillets, 1 lb pkg	1.60	1.55	1.67	1.61	1.69	1.73	1.84	1.81	1.75	1.81	1.64	1.71
King crab meat, 6 oz pkg	14.00	13.92	14.22	14.41	14.64	14.57	14.52	14.40	14.47	14.62	14.28	14.48
BREADED, COOKED												
Fish sticks, breaded, 14 oz pkg	1.86	1.83	1.81	1.85	1.82	1.88	1.91	1.89	1.92	1.85	1.88	1.95
Fish portions, breaded, 14 oz pkg	1.80	1.94	1.93	1.95	1.95	2.05	1.92	2.03	2.12	2.02	1.99	2.11
Shrimp, breaded, fantail	4.06	4.22	4.25	4.27	4.56	4.64	4.70	4.85	4.75	4.48	4.71	4.97
CANNED												
Tuna, solid, white, in water, 7 oz can	2.69	2.68	2.69	2.69	2.71	2.79	2.82	2.79	2.81	2.82	2.91	2.91
Tuna, chunk, light, in oil, 6 1/2 oz can	1.97	2.01	2.00	1.96	1.99	2.02	1.92	2.03	2.09	2.02	2.04	2.07
Salmon, pink, 1 lb. can	1.99	2.02	1.99	2.06	1.98	2.02	2.01	2.04	2.09	2.11	2.14	2.18
Salmon, red, 1 lb can	2.91	2.93	2.94	2.94	2.97	2.95	2.98	2.99	3.07	3.09	3.13	3.14
Sardines, Maine, single layer, soybean oil, 3 3/4 oz can	2.16	2.10	2.09	2.09	2.12	2.08	2.08	2.11	2.10	2.08	2.08	2.10
Sardines, Norway, single layer, soybean oil, 3 3/4 oz can	3.12	3.01	3.06	3.05	3.10	3.09	3.09	3.18	3.13	3.07	3.17	3.16
Shrimp, small, 4 1/2 oz can	4.37	5.00	4.94	4.93	5.07	5.02	5.55	5.87	6.24	6.11	6.42	6.83

INDEX OF RETAIL PRICES, BY MONTHS, 1979
APRIL 1973 = 100

ITEM	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
Fish	197.4	199.9	200.8	201.4	205.9	208.6	208.2	210.3	214.9	215.5	216.5	221.5
Meat	143.6	151.4	156.1	155.9	160.8	161.6	160.6	152.5	151.1	151.4	154.1	157.2
Poultry	131.7	131.3	135.0	131.7	133.7	132.3	131.0	130.0	130.0	125.0	120.7	120.0

Note:--The retail prices and indexes are based on an informal monthly survey of retail prices of fish and other items in 3 retail grocery stores in each of 10 cities. All items in each index are given equal weight. The indexes are not seasonally adjusted.

Source:--Operation Price Watch, National Marine Fisheries Service, Fisheries Development Division, Washington, D.C. 20235, Phone: (202) 634-7385.

VALUE ADDED, MARGINS, AND CONSUMER EXPENDITURES FOR EDIBLE FISHERY PRODUCTS IN THE UNITED STATES, 1978 AND 1979

Value	Domestic		Imports (1)		Total margin	Value-added rate (2)	Value added (3) (contribution to the economy as GNP)	
	Sales	Margin	Sales	Margin			Total	Percentage of total
	Million dollars					Percent	Million dollars	Percent
1978 (Revised):								
Domestic landings	1,854	-	-	-	-	-	-	-
Industrial fish (4)	121	-	-	-	-	-	-	-
Edible fish (harvesting bill)	1,733	-	-	-	1,733	68.40	1,185	18.62
Exports (unprocessed) (5)	221	-	-	-	-	-	-	-
Total domestic sales	1,512	(1,512)	-	-	-	-	-	-
Imports	-	-	2,253	(2,253)	-	-	-	-
To be processed	-	-	677	-	-	-	-	-
To trade dealers	-	-	1,576	-	-	-	-	-
Processing level (6)	3,215	1,703	1,116	440	2,143	62.70	1,344	21.12
Exports (processed) (7)	514	-	-	-	-	-	-	-
Domestic sales	2,701	-	-	-	-	-	-	-
Wholesale level (8)	3,263	562	3,144	451	1,013	63.65	645	10.14
Channels to consumers:								
Retail stores (9)	1,595	355	2,023	451	806	81.10	654	10.28
Public eating places (10)	4,129	2,269	3,071	1,688	3,957	61.00	2,414	37.94
Institutions (11)	270	107	312	123	230	52.40	121	1.90
Consumer expenditures: (12)								
Sales through three channels	5,994	-	5,406	-	-	-	-	-
Landings (or imports) plus margins at five levels minus exports	-	5,994	-	5,406	-	-	-	-
Fisherman's share of a consumer's dollar for fish when exports are included	(26.6%)	-	-	-	-	-	-	-
Total consumer expenditures	(52.6%)	11,400		(47.4%)	-	-	-	-
Total value added (contribution to the economy as GNP)	-	-	-	-	-	-	6,363	100.00
1979:								
Domestic landings	2,234	-	-	-	-	-	-	-
Industrial fish (4)	141	-	-	-	-	-	-	-
Edible fish (harvesting bill)	2,093	-	-	-	2,093	69.20	1,448	20.59
Exports (unprocessed) (5)	275	-	-	-	-	-	-	-
Total domestic sales	1,818	(1,818)	-	-	-	-	-	-
To be processed	1,482	-	-	-	-	-	-	-
Unprocessed to wholesaler	336	-	-	-	-	-	-	-
Imports	-	-	2,668	(2,668)	-	-	-	-
To be processed	-	-	678	-	-	-	-	-
To trade dealers	-	-	1,990	-	-	-	-	-
Processing level (6)	3,157	1,677	1,119	442	2,119	63.20	1,339	19.04
Exports (processed) (7)	626	-	-	-	-	-	-	-
Domestic sales	2,531	-	-	-	-	-	-	-
Wholesale level (8)	3,467	599	3,650	540	1,139	64.45	734	10.43
Channels to consumers:								
Retail stores (9)	1,696	379	2,349	524	903	81.80	739	10.51
Public eating places (10)	4,369	2,392	3,549	1,943	4,335	60.90	2,640	37.53
Institutions (11)	287	113	362	143	256	52.40	134	1.90
Consumer expenditures: (12)								
Sales through three channels	6,352	-	6,260	-	-	-	-	-
Landings (or imports) plus margins at five levels minus exports	-	6,352	-	6,260	-	-	-	-
Fisherman's share of a consumer's dollar for fish when exports are included	(30.0%)	-	-	-	-	-	-	-
Total consumer expenditures	(50.4%)	12,612		(49.6%)	-	-	-	-
Total value added (contribution to the economy as GNP)	-	-	-	-	-	-	7,034	100.00

See footnotes on next page.

(Continued)

VALUE ADDED, MARGINS, AND CONSUMER EXPENDITURES FOR EDIBLE FISHERY PRODUCTS IN THE UNITED STATES, 1978 AND 1979 - Continued

FOOTNOTES

(1) For imported fishery products, the margin and sales values at different levels are calculated in the same manner as they are done for the domestic production column, except that the markup rate at the processor level is 0.6495 in 1978 and 0.6518 in 1979; at the wholesale level the markup rate is 0.1675 in 1978 and 0.1736 in 1979. In 1978 and 1979 the distribution rate is 50 percent at retail stores, 44 percent at eating places, and 6 percent at institutions.

(2) Value-added rate at each level is the weighted average of all fishery products, expressed as a percentage of its corresponding margin.

(3) Multiply each item under the total margin column by its corresponding value under the value-added rate column to get the actual value added as contribution to the economy from all production and distribution levels of the U.S. fishing industry in the food fish sector.

(4) Value of landings of fish for industrial purposes is deducted.

(5) Exports of unprocessed fish are deducted from the value of the landings after being converted to an equivalent value for domestic landings.

(6) Processor's purchase value (or domestic sales at the harvesting level) times the processor's markup rate (weighted average for all fishery products is 1.1262 in 1978 and 1.1320 in 1979) equals the margin at the processor's level.

(7) Exports of processed products are deducted at their export value from this level.

(8) Wholesale purchase value (processors domestic sales and unprocessed products from domestic landings) times the weighted average of markup rates (0.2080 for 1978 and 0.2087 for 1979).

(9) In 1978 and 1979, 38 percent of wholesale sales value is distributed to retailers. This value times the weighted average of markup rates (0.2870 in 1978 and 0.2872 in 1979) at the retail level equals the margin at retail.

(10) In 1978 and 1979, 57 percent of wholesale sales value is distributed to public eating places. At a markup rate of 1.220 for 1978 and 1.210 for 1979, the margin and sales values at this level are obtained.

(11) A wholesale sales value of 5 percent is distributed to institutions with a markup rate of 0.6550 in 1978 and 0.6530 in 1979; the margin and sales value at this level are then calculated.

(12) Consumer expenditures are the total sales value at retail stores, public eating places, and institutions. This total is also the sum of margins of five marketing levels and the landings value after export value is deducted.

Note:--The procedure for calculating the data in this table is based on two comprehensive reports: Cost Analyses of U.S. Fish Price Margins, 1972-1977, at Different Production and Distribution Levels and Marketing Bill of U.S. Fish-Food Products, both prepared by Erwin S. Penn (202-634-7111) of the Economic Analysis Group, Office of Policy and Planning, Fx53.

U.S. PER CAPITA USE

Per capita use of commercial fish and shellfish is based on the supply of fishery products, both edible and nonedible (industrial), on a round-weight equivalent basis, without considering beginning or ending stocks, defense purchases, or exports (see p. 52).

Per capita use figures are not comparable with per capita consumption data (see p. 75). Per capita consumption figures represent edible (for human use) meat-weight consumption rather than round-weight consumption. In addition, per capita consumption includes allowances for beginning and ending stocks, defense purchases, and exports, whereas the use does not include such allowances.

Per capita use is derived by using total population including U.S. Armed Forces overseas. The per capita consumption is derived by using civilian resident population.

U.S. ANNUAL PER CAPITA USE OF COMMERCIAL FISH AND SHELLFISH, 1950-79

Year	Total population including armed forces overseas July 1	Total U.S. supply (1)	Per capita utilization		
			Commercial landings	Imports	Total
	Million persons	Million pounds	Pounds		
1950	152.3	6,547	32.2	10.8	43.0
1951	154.9	6,757	28.6	15.0	43.6
1952	157.6	7,636	28.1	20.4	48.5
1953	160.2	7,015	28.0	15.8	43.8
1954	163.0	7,593	29.2	17.4	46.6
1955	165.9	7,121	29.0	13.9	42.9
1956	168.9	7,569	31.2	13.6	44.8
1957	172.0	7,164	27.9	13.8	41.7
1958	174.9	7,526	27.1	15.9	43.0
1959	177.8	8,460	28.8	18.8	47.6
1960	180.7	8,223	27.3	18.2	45.5
1961	183.7	9,570	28.2	23.9	52.1
1962	186.5	10,408	28.7	27.1	55.8
1963	189.2	11,434	25.6	34.8	60.4
1964	191.9	12,031	23.7	39.0	62.7
1965	194.3	10,535	24.6	29.6	54.2
1966	196.6	12,469	22.2	41.2	63.4
1967	198.7	13,991	20.4	50.0	70.4
1968	200.7	17,381	20.7	65.9	86.6
1969	202.7	11,847	21.4	37.0	58.4
1970	204.9	11,474	24.0	32.0	56.0
1971	207.1	11,804	24.2	32.8	57.0
1972	208.8	13,849	23.0	43.3	66.3
1973	210.4	10,378	23.1	26.2	49.3
1974	211.9	9,875	23.4	23.2	46.6
1975	213.6	10,164	22.8	24.8	47.6
1976	215.2	11,555	24.9	28.8	53.7
1977 (2)	216.9	10,579	24.0	24.8	48.8
1978 (2)	218.7	11,509	27.6	25.0	52.6
1979 (2)	220.6	11,831	28.4	25.2	53.6

(1) Data include U.S. commercial landings and imports of both edible and nonedible (industrial) fishery products on a round-weight basis. "Total supply" is not adjusted for beginning and ending stocks, defense purchases, or exports.
(2) Preliminary.

Annual per capita consumption of seafood products represents the pounds of edible meat consumed from domestically caught and imported fish and shellfish adjusted for beginning and ending inventories, imports, exports, and military purchases, divided by the civilian population of the United States as of July 1 of each year.

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1909-79

Year	Civilian resident population July 1 (1)	Per capita consumption			
		Fresh and frozen (2)	Canned (3)	Cured (4)	Total
	Million persons	Pounds, edible meat			
1909 (5)	90.5	4.3	2.7	*4.0	11.0
1910	92.4	4.5	2.8	3.9	11.2
1911	93.9	4.8	2.8	3.7	11.3
1912	95.3	5.0	2.9	3.4	11.3
1913	97.2	5.3	2.9	3.3	11.5
1914	99.1	5.6	3.0	3.1	11.7
1915	100.5	5.8	2.4	3.0	11.2
1916	102.0	6.0	2.2	2.8	11.0
1917	103.3	6.2	2.0	2.7	10.9
1918	103.2	6.4	2.0	2.5	10.9
1919	104.5	6.4	2.8	2.4	11.6
1920	106.5	6.3	3.2	2.3	11.8
1921	108.5	6.2	2.2	2.1	10.5
1922	110.0	6.1	3.2	2.0	11.3
1923	111.9	6.0	2.9	1.8	10.7
1924	114.1	6.1	3.2	1.7	11.0
1925	115.8	6.3	3.2	1.6	11.1
1926	117.4	6.6	3.4	1.4	11.4
1927	119.0	7.0	3.9	1.3	12.2
1928	120.5	7.1	3.9	1.1	12.1
1929	121.8	6.9	3.9	1.1	11.9
1930	122.9	5.8	3.4	1.0	10.2
1931	123.9	4.9	3.2	.7	8.8
1932	124.7	4.3	3.4	.7	8.4
1933	125.4	4.2	3.9	.6	8.7
1934	126.2	4.3	4.2	.7	9.2
1935	127.1	5.1	4.7	.7	10.5
1936	127.9	5.2	*5.8	.7	11.7
1937	128.6	5.6	5.3	.9	11.8
1938	129.6	5.2	4.8	.8	10.8
1939	130.7	5.3	4.7	.7	10.7
1940	132.1	5.7	4.6	.7	11.0
1941	132.1	6.3	4.2	.7	11.2
1942	131.4	5.2	2.9	.6	8.7
1943	128.0	5.5	1.8	.6	7.9
1944	127.2	5.5	2.6	.6	8.7
1945	128.1	6.6	2.6	.7	9.9
1946	138.9	5.9	4.2	.7	10.8
1947	143.1	5.8	3.8	.7	10.3
1948	145.7	6.0	4.4	.7	11.1
1949	148.2	5.8	4.5	.6	10.9
1950	150.8	6.3	4.9	.6	11.8
1951	151.6	6.3	4.3	.6	11.2
1952	153.9	6.2	4.3	.7	11.2
1953	156.6	6.4	4.3	.7	11.4
1954	159.7	6.2	4.3	.7	11.2
1955	163.0	5.9	3.9	.7	10.5
1956	166.1	5.7	4.0	.7	10.4
1957	169.1	5.5	4.0	.7	10.2
1958	172.2	5.7	4.3	.6	10.6
1959	175.3	5.9	4.4	.6	10.9

See footnotes at end of table. (Continued)

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1909-79 - Continued

Year	Civilian resident population July 1 (1)	Per capita consumption			
		Fresh and frozen (2)	Canned (3)	Cured (4)	Total
	Million persons	Pounds, edible meat			
1960	178.1	5.7	4.0	0.6	10.3
1961	181.1	5.9	4.3	.5	10.7
1962	183.7	5.8	4.3	.5	10.6
1963	186.5	5.8	4.4	.5	10.7
1964	189.1	5.9	4.1	.5	10.5
1965	191.6	6.0	4.3	.5	10.8
1966	193.4	6.1	4.3	.5	10.9
1967	195.3	5.8	4.3	.5	10.6
1968	197.1	6.2	4.3	.5	11.0
1969	199.1	6.6	4.2	.4	11.2
1970	201.7	6.9	4.5	.4	11.8
1971	204.3	6.7	4.3	.5	11.5
1972	206.5	7.2	4.9	.4	12.5
1973	208.1	7.5	5.0	.4	12.9
1974	209.7	7.0	4.8	.4	12.2
1975	211.4	7.6	4.3	.4	12.3
1976	213.0	*8.3	4.3	.5	13.1
1977 (6)	214.7	7.9	4.6	.4	12.9
1978 (6)	216.6	8.2	5.1	.3	*13.6
1979 (6)	218.5	8.0	4.9	.4	13.3

(1) Resident population for 1909 to 1929 and civilian resident population for 1930 to date.
(2) Fresh and frozen fish consumption from 1910 to 1928 is estimated. Beginning in 1973, data include consumption of artificially cultivated catfish.
(3) Canned fish consumption for 1910 to 1920 is estimated. Beginning in 1921 it is based on production reports, packer stocks, and foreign trade statistics for individual years.
(4) Cured fish consumption for 1910 to 1928 is estimated.
(5) Data for 1909 estimate based on the 1908 census and foreign trade data.
(6) Preliminary.
*Record.
Note:--These consumption figures refer only to consumption of fish and shellfish entering commercial channels, and they do not include data on consumption of recreationally caught fish and shellfish, which since 1970 is estimated to be between 3 and 4 pounds (edible meat) per person annually.

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1960-79

Year	Salmon	Sardines	Tuna	Shellfish	Other	Total
			Pounds			
1960	0.7	0.4	2.0	0.4	0.5	4.0
1961	.8	.5	2.1	.4	.5	4.3
1962	.9	.3	2.1	.4	.6	4.3
1963	.9	.4	2.0	.5	.6	4.4
1964	.7	.3	2.0	.5	.6	4.1
1965	.9	.3	2.3	.5	.3	4.3
1966	.8	.4	2.3	.4	.4	4.3
1967	.7	.4	2.4	.5	.3	4.3
1968	.7	.4	2.4	.5	.3	4.3
1969	.7	.4	2.4	.5	.2	4.2
1970	.7	.4	2.5	.5	.4	4.5
1971	.7	.4	2.4	.5	.3	4.3
1972	.7	.4	2.9	.5	.4	4.9
1973	.4	.5	3.1	.5	.5	5.0
1974	.3	.4	3.1	.6	.4	4.8
1975	.4	.2	2.9	.4	.4	4.3
1976	.4	.3	2.9	.4	.3	4.3
1977 (1)	.5	.3	2.9	.6	.3	4.6
1978 (1)	.6	.3	3.3	.5	.4	5.1
1979 (1)	.5	.3	3.3	.5	.3	4.9

(1) Preliminary.

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1960-79

Year	Fillets and steaks (1)	Sticks and portions	Shrimp, all preparations
		Pounds (2)	
1960	1.64	0.63	1.08
1961	1.67	.71	1.01
1962	1.77	.82	1.02
1963	1.60	.92	1.17
1964	1.62	.98	1.16
1965	1.68	1.12	1.24
1966	1.74	1.14	1.21
1967	1.64	1.21	1.29
1968	1.86	1.32	1.37
1969	2.01	1.63	1.31
1970	2.17	1.73	1.44
1971	2.04	1.63	1.39
1972	2.29	1.79	1.44
1973	2.54	2.00	1.36
1974	2.14	1.84	1.51
1975	2.42	1.80	1.41
1976	2.56	2.07	1.50
1977 (3)	2.56	2.05	*1.59
1978 (3)	*2.72	*2.19	1.51
1979 (3)	2.68	2.15	1.34

(1) Data include groundfish and other species. Data do not include blocks, but fillets could be made into blocks from which sticks and portions could be produced.
(2) Product weight of fillets and steaks and sticks and portions, edible weight of shrimp.
(3) Preliminary.
*Record.

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1975

Region and country	Estimated live weight equivalent	
	Kilograms	Pounds
North America:		
Canada	16.6	36.6
United States	15.9	35.1
Latin America:		
Argentina	6.5	14.3
Bolivia	1.2	2.6
Brazil	7.3	16.1
Chile	15.1	33.3
Colombia	4.1	9.0
Costa Rica	4.6	10.1
Cuba	20.5	45.2
Dominican Republic	4.8	10.5
Ecuador	7.3	16.1
El Salvador	3.0	6.6
Guatemala	1.1	2.4
Guyana	21.9	48.3
Haiti	1.3	2.9
Honduras	1.1	2.4
Jamaica	21.3	47.0
Mexico	4.6	10.1
Nicaragua	4.4	9.7
Panama	10.8	23.8
Paraguay	1.1	2.4
Peru	15.0	33.1
Puerto Rico	25.0	55.1
Surinam	20.2	44.5
Trinidad and Tobago	10.1	22.3
Uruguay	4.7	10.4
Venezuela	11.7	25.8
Europe:		
Albania	1.6	3.5
Austria	7.4	16.3
Belgium and Luxembourg	17.5	38.6
Bulgaria	14.0	30.9
Czechoslovakia	7.5	16.5
Denmark	34.6	76.3
Fed. Republic of Germany	11.5	25.4
Finland	22.1	48.7
France	21.5	47.4
German Democratic Rep.	20.2	44.5
Greece	14.8	32.6
Hungary	4.7	10.4
Iceland	66.8	147.3
Ireland	11.0	24.3
Italy	12.8	28.2
Malta	12.3	27.1
Netherlands	13.2	29.1
Norway	47.2	104.1
Poland	22.1	48.7
Portugal	50.4	111.1
Romania	7.3	16.1
Spain	38.5	84.9
Sweden	29.8	65.7
Switzerland	10.8	23.8
United Kingdom	17.9	39.5
Yugoslavia	3.7	8.2
USSR	27.9	61.5
Near East:		
Afghanistan	.1	.2
Cyprus	6.3	13.9
Egypt	3.4	7.5
Iran	1.2	2.6
Iraq	2.3	5.1
Israel	14.6	32.2
Jordan	2.5	5.5
Lebanon	2.9	6.4
Libya	6.9	15.2
Saudi Arabia	6.4	14.1
Sudan	1.4	3.1
Syria	1.6	3.5
Turkey	5.2	11.5
Yemen Arab Republic	1.6	3.5
Yemen (Aden)	18.8	41.4
Far East:		
Bangladesh	11.4	25.1
Burma	13.5	29.8
Cambodia	10.4	22.9
China, mainland	8.7	19.2
Hong Kong	49.3	108.7
India	3.4	7.5
Indonesia	9.5	20.9
Japan	74.7	164.7
Laos	6.1	13.4
Malaysia	23.7	52.2
Sabah	42.1	92.8
Sarawak	32.0	70.5
West Malaysia	21.3	47.0
Mongolia	.7	1.5
Nepal	.2	.4
North Korea	28.6	63.1
Pakistan	1.2	2.6
Philippines	33.8	74.5
Republic of Korea	37.0	81.6
Singapore	50.3	110.9
Sri Lanka (Ceylon)	10.4	22.9
Thailand	20.3	44.8
Vietnam	26.3	58.0
Africa:		
Algeria	2.2	4.9
Angola	7.8	17.2
Benin	12.2	26.9
Burundi	4.4	9.7
Cameroon	13.6	30.0

See footnote at end of table.

(Continued)

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1975 - Continued

Region and country	Estimated live weight equivalent	
	Kilograms	Pounds
Africa - Continued:		
Central African Empire	6.4	14.1
Chad	15.8	34.8
Congo (Brazzaville)	23.4	51.6
Ethiopia	.5	1.1
Gabon	13.5	29.8
Gambia	24.6	54.2
Ghana	28.1	61.9
Guinea	3.6	7.9
Ivory Coast	24.7	54.5
Kenya	2.6	5.7
Liberia	16.6	36.6
Madagascar	6.2	13.7
Malawi	14.5	32.0
Mali	9.1	20.1
Mauritania	22.0	48.5
Mauritius	15.2	33.5
Morocco	4.8	10.6
Mozambique	3.1	6.8
Niger	2.1	4.6
Nigeria	6.8	15.0
Republic of South Africa	8.9	19.6
Rhodesia	2.9	6.4
Rwanda	.3	.7
Senegal	37.6	82.9
Sierra Leone	25.9	57.1
Somalia	1.0	2.2
Tanzania	11.7	25.8
Togo	11.6	25.6
Tunisia	5.8	12.8
Uganda	15.7	34.6
Upper Volta	1.0	2.2
Zaire	9.0	19.8
Zambia	13.1	28.9
Oceania:		
Australia	13.6	30.0
New Zealand	16.1	35.5
World	13.1	28.9

Note:--Data for most countries are tentative.

Source:--Food and Agriculture Organization of the United Nations (FAO), Rome.

PLANTS PRODUCING CANNED FISHERY PRODUCTS, INDUSTRIAL FISHERY PRODUCTS, AND FISH FILLETS AND STEAKS, 1979

Area and State	Canned fishery products	Industrial fishery products	Fish fillets and steaks	Total plants, exclusive of duplication
			Number	
New England:				
Maine	16	7	24	46
Massachusetts	1	3	61	65
Rhode Island	-	-	2	2
Total	17	10	87	113
Mid-Atlantic:				
New York	4	2	12	17
New Jersey	13	4	2	19
Pennsylvania	3	-	1	4
Delaware	2	-	-	2
Maryland	-	4	-	4
Virginia	3	6	3	12
Total	25	16	18	58
South Atlantic and Gulf:				
North Carolina	3	11	31	42
South Carolina	2	-	4	6
Georgia	-	2	-	2
Florida	1	3	16	20
Alabama	-	1	-	1
Mississippi	-	3	-	3
Louisiana	10	21	2	31
Total	16	41	53	105
Pacific:				
Washington	26	12	22	53
Oregon	9	4	16	28
California	14	14	28	47
Total	49	30	66	128
Alaska	70	3	-	73
Inland States:				
Illinois	-	-	11	11
Iowa	-	1	3	4
Kansas	1	-	-	1
Michigan	2	-	8	10
Minnesota	-	1	4	5
Nebraska	1	-	-	1
North Dakota	-	-	1	1
Ohio	2	-	7	9
Wisconsin	3	3	13	19
Total	9	5	47	61
Hawaii	1	1	-	1
American Samoa	2	2	-	2
Puerto Rico	5	4	-	5
Grand total	194	112	271	546

PROCESSORS AND WHOLESALERS: PLANTS AND EMPLOYMENT, 1978

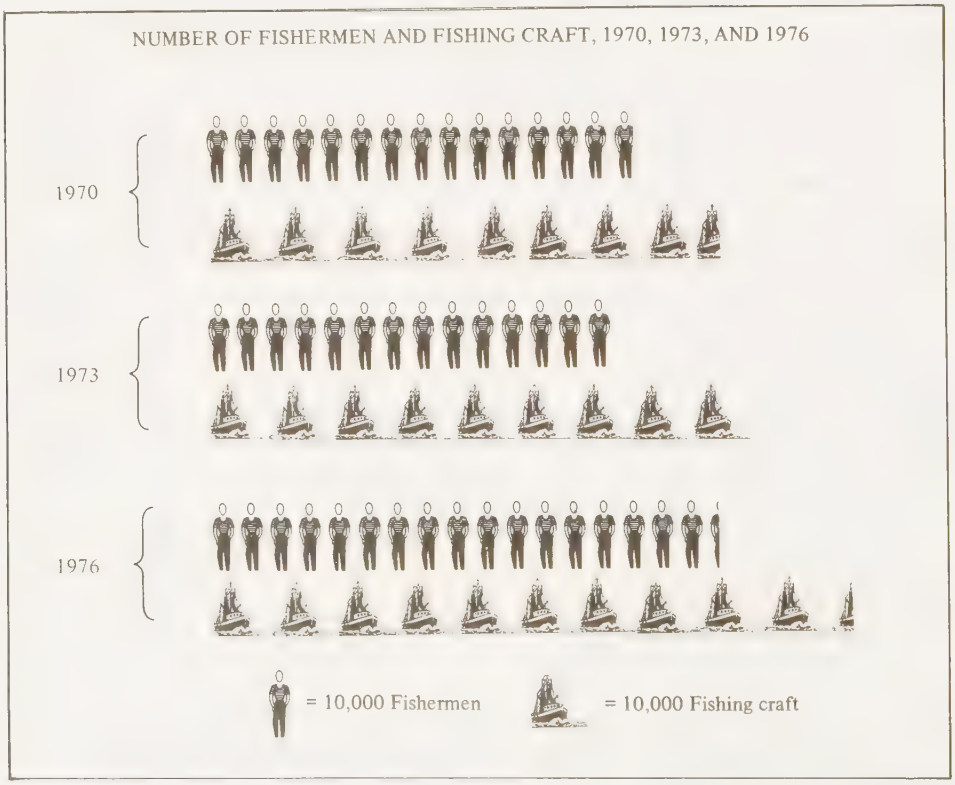
State and area	Processing			Wholesale			Total		
		Employment average			Employment average			Employment average	
	Plants	Season	Year	Plants	Season	Year	Plants	Season	Year
	Number								
New England:									
Maine	93	3,944	2,789	138	411	326	231	4,355	3,115
New Hampshire	12	489	441	(1)	(1)	(1)	12	489	441
Massachusetts	113	4,999	4,312	93	1,041	809	206	6,040	5,121
Rhode Island	18	335	287	14	66	58	32	401	345
Connecticut	4	37	32	7	35	32	11	72	64
Total	240	9,804	7,861	252	1,553	1,225	492	11,357	9,086
Mid-Atlantic:									
New York	42	626	584	204	1,987	1,864	246	2,613	2,448
New Jersey	40	1,605	1,328	67	334	301	107	1,939	1,629
Pennsylvania	17	866	710	20	236	235	37	1,102	945
Delaware	4	528	426	9	27	26	13	555	452
District of Columbia	-	-	-	6	84	84	6	84	84
Maryland	88	3,127	2,392	81	505	383	169	3,632	2,775
Virginia	125	4,851	3,721	60	430	380	185	5,281	4,101
Total	316	11,603	9,161	447	3,603	3,273	763	15,206	12,434
South Atlantic:									
North Carolina	88	2,138	1,421	139	580	446	227	2,718	1,867
South Carolina	19	582	427	96	432	272	115	1,014	699
Georgia	13	1,820	1,570	39	361	225	52	2,181	1,795
Florida East Coast	45	1,311	1,066	67	263	240	112	1,574	1,306
Total	165	5,851	4,484	341	1,636	1,183	506	7,487	5,667
Gulf:									
Florida West Coast	139	4,487	3,717	174	546	501	313	5,033	4,218
Alabama	50	1,869	1,284	18	181	101	68	2,050	1,385
Mississippi	40	1,788	1,290	19	151	95	59	1,939	1,385
Louisiana	136	4,611	3,140	115	617	498	251	5,228	3,638
Texas	60	2,404	1,733	89	1,268	815	149	3,672	2,548
Total	425	15,159	11,164	415	2,763	2,010	840	17,922	13,174
Pacific:									
Washington	106	2,794	2,014	73	1,159	822	179	3,953	2,836
Oregon	51	3,204	2,094	23	105	84	74	3,309	2,178
California	80	11,180	9,853	104	1,092	980	184	12,272	10,833
Total	237	17,178	13,961	200	2,356	1,886	437	19,534	15,847
Alaska (2)	225	10,000	6,000	(3)	(3)	(3)	225	10,000	6,000
Inland (4):									
Arkansas, Kansas, Kentucky, and Tennessee	4	164	153	3	62	55	7	226	208
Colorado and Utah	5	68	64	4	10	8	9	78	72
Idaho	8	415	415	3	10	10	11	425	425
Illinois	16	343	322	35	397	380	51	740	702
Indiana	-	-	-	10	100	95	10	100	95
Iowa	6	67	59	9	112	104	15	179	163
Michigan	18	160	136	26	253	242	44	413	378
Minnesota	8	262	143	7	12	9	15	274	152
Missouri, Nevada, North Dakota, Oklahoma, and South Dakota	3	11	8	23	201	193	26	212	201
Nebraska	-	-	-	5	75	73	5	75	73
Ohio	15	546	449	16	253	97	31	799	546
Wisconsin	25	234	205	17	201	193	42	435	398
Total	108	2,270	1,954	158	1,686	1,459	266	3,956	3,413
Other:									
Hawaii and American Samoa	17	1,989	1,799	20	300	300	37	2,289	2,099
Puerto Rico	5	7,553	6,837	(3)	(3)	(3)	5	7,553	6,837
Total	22	9,542	8,636	20	300	300	42	9,842	8,936
Grand total	1,738	81,407	63,221	1,833	13,897	11,336	3,571	95,304	74,557

(1) Data are included with Connecticut. (2) Data from Department of Labor, State of Alaska. (3) Data on wholesale establishments are not available. (4) A partial survey was made in some inland States.

FISHERY EMPLOYMENT, CRAFT, AND ESTABLISHMENTS, VARIOUS YEARS, 1960-76

Item	1960	1965	1970	1973	1974	1976
			Number			
Persons employed:						
Fishermen	130,431	128,565	140,538	148,884	161,361	172,900
Processing and wholesaling (1)	93,625	86,864	86,813	93,792	92,118	91,863
Total	224,056	215,429	227,351	242,676	253,479	264,763
Craft used:						
Vessels (2)	12,018	12,311	13,591	15,396	15,891	16,900
Motor boats	56,889	63,828	71,570	72,362	83,438	84,700
Other boats	8,150	3,393	2,000	2,259	1,907	1,600
Total	77,057	79,532	87,161	90,017	101,236	103,200
Shore establishments:						
New England States	568	532	537	487	483	503
Mid-Atlantic States	1,133	1,109	832	742	745	768
South Atlantic States	454	443	432	450	433	522
Gulf Coast States	743	847	817	785	742	726
Pacific States	381	420	402	293	356	362
Alaska	134	137	108	227	239	225
Inland States	772	673	564	520	487	511
Other (3)	22	24	43	48	49	43
Total	4,207	4,185	3,735	3,552	3,534	3,660

(1) Average for season.
(2) Craft 5 net tons and over as documented by U.S. Coast Guard.
(3) Data for 1960 and 1965 include Hawaii only. Data for other years include American Samoa, Hawaii, and Puerto Rico.



FISHERY PRODUCTS AND ESTABLISHMENTS INSPECTED IN CALENDAR YEAR 1979

Region	Edible fishery products							
	Establishments (1)			Amount inspected				
	SIFE (2)	PUFI (3)	MP (4)	Grade A (5)	PUFI (5)	No mark (6)	Lot (7)	Total
	Number			Thousand pounds				
Northeast	4	31	10	113,601	164,547	14,366	20,020	312,534
Southeast	2	19	8	9,595	77,145	12,970	13,873	113,583
West	4	14	7	16,322	103,716	4,100	45,571	69,709
Total, 1979	10	64	25	139,518	345,408	31,436	79,464	595,826
Total, 1978	11	60	23	149,697	345,116	44,281	77,735	616,829

(1) These establishments are inspected under contract and certified as meeting U.S. Department of Commerce (USDC) regulations for construction and maintenance of facilities and equipment, processing techniques, and employment practices. These establishments include two shrimp trawlers. (2) Fish processing establishments approved for sanitation under the Sanitarily Inspected Fish Establishment Service (SIFE). Products are not processed under inspection. (3) Sanitarily inspected fish establishments processing fishery products under U.S. Department of Agriculture (USDA) inspection. (4) Plants under inspection for military purchase (MP) products only. (5) Products processed under inspection in inspected establishments and labeled with USDC inspection mark as "Packed Under Federal Inspection" (PUFI) or "U.S. Grade A." (6) Products processed under inspection in inspected establishments but bearing no USDC inspection mark. (7) Lot inspected products checked for quality and condition at the time of examination and located in processing plants, warehouses, cold storage facilities, or terminal markets anywhere in the United States.

Source:--NMFS, Seafood Research, Inspection and Consumer Services Division.

FISHERY COOPERATIVES

FISHERY COOPERATIVES IN THE UNITED STATES, PUERTO RICO, AND VIRGIN ISLANDS, 1979
(Preliminary)

Region and State or area	Total	Members	Fishing craft	Functions performed by cooperatives: Marketing and purchasing	Marketing exclusively	Other
				Number		
New England and Middle Atlantic:						
Maine	17	904	623	15	-	2
Massachusetts	6	929	514	5	1	-
Rhode Island	2	180	100	1	1	-
Connecticut	1	64	24	-	1	-
New York	2	40	20	1	-	1
New Jersey	3	99	44	1	2	-
Total	31	2,216	1,325	23	5	3
South Atlantic and Gulf:						
Florida	6	340	210	2	3	1
Georgia	1	22	28	1	-	-
Louisiana	1	142	140	1	-	-
Mississippi	1	17	-	-	-	1
North Carolina	1	275	200	-	1	-
South Carolina	2	45	21	1	1	-
Texas	4	184	273	1	2	1
Total	16	1,025	872	6	7	3
Great Lakes and inland:						
Arkansas	1	34	-	-	1	-
Michigan	1	125	70	1	-	-
Minnesota	2	153	103	1	1	-
Ohio	1	5	5	-	1	-
Total	5	317	178	2	3	-
Pacific Coast:						
Alaska	24	2,751	2,132	6	1	17
California	17	2,639	2,207	-	8	9
Oregon	1	500	500	-	1	-
Washington	5	1,591	1,520	1	2	2
Total	47	7,481	6,359	7	12	28
Puerto Rico	1	21	12	1	-	-
Virgin Islands	2	84	65	2	-	-
Grand total	102	11,144	8,811	41	27	34

Note:--Most of these cooperatives are listed in List of Fishery Cooperatives in the United States 1978-79. This publication is available from NMFS, Fisheries Development Division (F/UD1), Washington, D.C. 20235. Final figures will be published in List of Fishery Cooperatives in the United States 1979-80. These cooperatives meet at least one of the following requirements: 1. Each member of the Association has one vote irrespective of the amount of stock or membership capital he may own therein; or 2. The association's dividends on stock or membership capital does not exceed 8 percent per year; and 3. The association shall not deal in the products of nonmembers in an amount greater in value than is handled for members.

Source:--NMFS, Fisheries Development Division (F/UD1)

The Fishery Conservation and Management Act of 1976 (FCMA), Public Law 94-265, signed on April 13, 1976, provides for the conservation and exclusive management of all fishery resources within the U.S. fishery conservation zone (FCZ), except highly migratory species of tuna. It also provides for exclusive management authority over Continental Shelf Fishery resources and anadromous species beyond the U.S. FCZ, except during the time they are found within any foreign nation's territorial sea or fishery conservation zone (or the equivalent), to the extent that such sea or zone is recognized by the United States.

The U.S. FCZ extends from the seaward boundaries of the territorial sea (3 nautical miles from shore for all but 2 States) to 200 nautical miles from shore. The seaward boundaries of Texas and the Gulf Coast of Florida are 3 marine leagues (9 nautical miles).

GOVERNING INTERNATIONAL FISHERY AGREEMENTS

Under FCMA, the U.S. Department of State, with cooperation from the National Oceanic and Atmospheric Administration of the U.S. Department of Commerce, negotiates a Governing International Fishery Agreement (GIFA) with foreign countries wishing to fish within the U.S. FCZ. After the GIFA is signed, it is transmitted by the President to the Congress for review.

FOREIGN FISHING PERMIT

After a GIFA is in force, the foreign nation submits a vessel permit application for each vessel to the U.S. Department of State. The U.S. Department of State provides copies of the application to the Congress, the U.S. Coast Guard, the appropriate Regional Fishery Management Council, and a copy with recommendations to the Assistant Administrator for Fisheries of the National Marine Fisheries Service (NMFS). NMFS also receives recommendations from the Regional Fishery Management Councils and the U.S. Coast Guard.

The Assistant Administrator for Fisheries reviews all recommendations pertinent to the application and, after consultation with the U.S. Department of State and the U.S. Coast Guard, may approve the application. The conditions and restrictions on the approval of the application, and the request for fees, are sent to the foreign nation through the U.S. Department of State.

FEES

Foreign nations (except Canada) engaged in fisheries subject to U.S. jurisdiction are charged permit fees, a poundage fee, a foreign fee surcharge, and an observer fee.

The permit fees are annual charges of $1 per gross registered ton for each vessel engaged in fishing; 50 cents per gross registered ton for each vessel engaged in processing fish (not to exceed $2,500 per vessel); $200 for each ship assisting other vessels in harvesting or processing; and $200 for each vessel in a nonretention fishery.

The poundage fee is computed by taking 3.5 percent of the dockside (exvessel) price of fish that are allocated annually to each foreign nation. The value of the fish is based on the dockside price received by U.S. fishermen. For species not landed in the United States, an appropriate foreign dockside price is used. Upon application by a foreign nation at the end of the year, a refund is made for the unused allocations.

Beginning in 1979, the United States imposed a surcharge of up to 20 percent on each nation's permit fee and poundage fee, but not on the observer fee. The surcharge is used to capitalize a fund to compensate U.S. fishermen operating in the U.S. FCZ whose vessels are lost or damaged because of foreign vessel activities, or whose fishing gear is lost or damaged by any foreign or domestic vessel or by "Acts of God." The surcharge is in two installments. The first installment is 10 percent, and is payable when the permit fee and poundage fee are paid. The amount of the second installment will be reduced or waived if the total claim against the fund is not as high as estimated.

The observer fee covers U.S. costs including salary, per diem, transportation, and overhead for U.S. observers on board foreign vessels. The fee is computed on the basis of actual observer trips.

FOREIGN ALLOCATIONS

The total allowable level of foreign fishing(TALFF), if any, for any fishery subject to the exclusive fishery management authority of the United States, is that portion of the optimum yield (OY) of such fishery that will not be harvested by vessels of the United States.

Each assessment of OY and each assessment of the anticipated U.S. harvest will be reviewed during each fishing season. Adjustments to TALFFs will be made based on updated information relating to status of stocks, estimated and actual performance of domestic and foreign fleets, and other relevant factors.

FMPs and PMPs

Under the FCMA, eight Regional Fishery Management Councils are charged with the obligation to prepare fishery management plans (FMPs) for the fisheries under their jurisdiction. After the Councils develop FMPs, which cover both domestic and foreign fishing efforts, the FMPs are submitted to the Secretary of Commerce for Secretarial approval and implementation. The Department, through NMFS agents, and the U.S. Coast Guard are responsible for enforcing the law and regulations. The Secretary of Commerce is also empowered to prepare plans. Where no FMP exists, Preliminary Fishery Management Plans (PMPs), which only cover foreign fishing efforts, are prepared by the Secretary for each fishery for which a foreign nation requests a permit. The Secretary is also empowered to produce an FMP for any fishery that a Council has not duly produced. In this latter case, the Secretary's plan covers both domestic and foreign fishing.

There were 20 major domestic and foreign fisheries under management plan on March 15, 1980 - - 12 FMP s and 8 PMP s. The FMP s in effect on that date were:

Atlantic Butterfish
Atlantic Groundfish
Atlantic Herring
Atlantic Mackerel
Surf Clam and Ocean Quahog
Atlantic Squid
Stone Crab
Northern Anchovy
Troll Salmon (Washington, Oregon, and California)
Gulf of Alaska Groundfish
High Seas Salmon (Alaska)
Tanner Crab

The PMP s in effect on March 15, 1980 were:

Atlantic Billfishes and Sharks
Atlantic Hake
Other Finfish (Atlantic)
Trawl Fishery (Washington, Oregon, California)
Bering Sea Herring and Groundfish
Bering Sea Snails
Pacific Billfish and Sharks
Seamount Groundfish

The following nine FMPs are in the FMP approval or implementation process.

Gulf of Mexico and South Atlantic Coastal Pelagics (mackerel)
Gulf of Mexico Reef Fishes
Gulf of Mexico Shrimp
Caribbean Spiny Lobster
Pacific Groundfish
Jack Mackerel
Bering Sea Groundfish
Bering Sea Herring
Pacific Precious Corals

NMFS expects these additional seven FMPs to be submitted for approval in calendar year 1980:

Gulf of Mexico Corals
Gulf of Mexico Groundfish
Gulf of Mexico Shark
Gulf of Mexico Spiny Lobster
Caribbean Shallow-water Reef Fish
Pacific Pink Shrimp
King Crab

REGIONAL FISHERY MANAGEMENT COUNCILS

Council	States	Telephone number	Executive Director
NEW ENGLAND	(Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut)	617-535-5450	Douglas G. Marshall, Peabody Office Bldg. One Newbury St., Peabody, MA 01960
MID-ATLANTIC	(New York, New Jersey, Delaware, Pennsylvania, Maryland, and Virginia)	302-674-2331	John C. Bryson, Federal Bldg., Suite 2115 North and New Sts., Dover, DE 19901
SOUTH ATLANTIC	(North Carolina, South Carolina, Georgia, and Florida)	803-571-4366	Ernest D. Premetz, Southpark Bldg., Suite 306 1 Southpark Circle, Charleston, SC 29407
GULF OF MEXICO	(Texas, Louisiana, Mississippi, Alabama, and Florida)	813-228-2815	Wayne E. Swingle, Lincoln Center, Suite 881 5401 W. Kennedy Blvd., Tampa, FL 33607
CARIBBEAN	(Puerto Rico and Virgin Islands)	809-753-4926	Omar Munoz-Roure, Banco de Ponce Bldg. P.O. Box 1001 Hato Rey, PR 00918
PACIFIC	(California, Washington, Oregon, and Idaho)	503-221-6352	Lorry M. Nakatsu, 526 SW. Mill St. Portland, OR 97201
NORTH PACIFIC	(Alaska, Washington, and Oregon)	907-271-4064	Jim H. Branson, 333 W. Fourth Ave., Suite 32 P.O. Box 3136DT, Anchorage, AK 99510
WESTERN PACIFIC	(Hawaii, American Samoa, Guam, and other Pacific areas).	808-523-1368	John C. Marr 1164 Bishop St., Room 1608 Honolulu, HI 96813

TABLES

Tables on the following pages are supplemental to the forthcoming *Calendar Year 1979 Report on the Implementation of the Fishery Conservation and Management Act of 1976.* Information on how to obtain copies of this report may be obtained from:

User Services Branch, OA/D822
Environmental Data and Information Service, NOAA
Rockville, MD 20852

DOCKSIDE (EXVESSEL) PRICES USED TO COMPUTE POUNDAGE FEES CHARGED FOR FISH ALLOCATED TO FOREIGN NATIONS, 1977-80

Region and species	1977	1978	1979	1980
	Dollars per metric ton			
North Atlantic				
Butterfish	302	622	626	927
Hake:				
Red	156	185	199	315
Silver (whiting)	194	184	205	369
Herring, river (alewives)	-	96	100	113
Herring, sea	73	87	200	-
Mackerel	255	259	385	530
Sharks (except dogfish)	-	140	210	1,091
Other finfish	328	334	382	930
Squid:				
Short-finned	419	414	472	176
Long-finned	419	414	938	993
Washington, Oregon, and California 1/				
Hake, Pacific (whiting)	34	32	176	176
Jack mackerel	93	110	110	154
Alaska				
Atka mackerel	130	138	223	223
Cod, Pacific	251	282	359	419
Flounders	318	387	407	397
Herring, sea:				
Roeless	161	100	100	165
With roe	161	100	991	1,488
Ocean perch, Pacific	-	280	356	397
Pollock, Alaska	98	84	176	220
Rockfishes	350	298	356	397
Sablefish:				
Longline caught	372	399	1,477	1,587
Trawl caught	372	399	551	661
Turbots (including arrowtooth flounder and Greenland turbot)	-	-	-	265
Other groundfish	45	48	49	56
Crabs, snow (tanner)	441	441	661	882
Snails (meats)	600	600	1,657	658
Squid	82	55	458	324
Hawaii and Pacific Islands				
Alfonsins and armorheads	614	172	397	397
Dolphinfish (mahi mahi)	-	-	-	4,354
Sharks (except dogfish)	-	134	396	825
Striped marlin	-	1,579	2,346	2,816
Swordfish	-	4,040	5,875	3,036
Other billfish	-	875	664	1,111
Wahoo	-	-	-	2,968

(1) Prices for flounders, rockfishes, and sablefish, which are caught in the foreign fishery incidentally in this region, are the same as for Alaska.

Note:--Poundage fee is computed at rate of 3.5 percent of dockside (exvessel) price.

Source:--Adapted from 42 FR 8177, February 9, 1977; 43 FR 19232, May 4, 1978; 43 FR 59313, December 19, 1978; 44 FR 76295, December 26, 1979.

OPTIMUM YIELD, U.S. CAPACITY, RESERVE, TALFF, AND FOREIGN ALLOCATIONS: BY COUNTRY AND REGION, 1979 (FINAL)

Item	North Atlantic and Gulf of Mexico	Washington, Oregon, and California	Gulf of Alaska	Bering Sea and Aleutian Islands	Seamount	Total
	Metric tons, round weight					
Optimum yield (OY)	(1)519,450	315,100	343,900	1,497,626	2,000	2,678,076
U.S. capacity	(1)336,200	146,435	18,132	63,556	0	564,323
Reserve	0	2	9,645	2,100	0	11,747
TALFF	183,250	168,663	316,123	1,431,970	2,000	2,102,006
Country allocations						
China, Taiwan	0	0	0	6,243	1,000	7,243
EEC:						
Federal Republic of Germany	3,071	0	0	0	0	3,071
Ireland	878	0	0	0	0	878
Italy	9,520	0	0	0	0	9,520
German Democratic Republic	1,693	0	0	0	0	1,693
Japan	22,842	0	118,002	1,063,585	1,000	1,205,429
Mexico	16,634	6,270	23,673	0	0	46,577
Poland	6,998	24,378	25,592	31,088	0	88,056
Republic of Korea	0	0	43,051	106,974	0	150,025
Romania	1,703	0	0	0	0	1,703
Spain	24,095	0	0	0	0	24,095
USSR	72,219	138,015	105,805	224,080	0	540,119
Unallocated	23,597	0	0	0	0	23,597

(1) Includes Atlantic herring, which had a TALFF in 1977.

Note:--TALFF = OY minus U.S. capacity minus Reserve. (See Glossary.) Table only includes species for which there is a foreign fishery. Species prohibited to foreign fishing are not included, except as noted.

Source:--OY, U.S. capacity, Reserve, and TALFF are from the Office of Resource Conservation and Management. Country allocations are from the U.S. Department of State, Office of Fisheries Affairs.

OPTIMUM YIELD, U.S. CAPACITY, RESERVE, TALFF AND FOREIGN FISHING ALLOCATIONS:
NORTH ATLANTIC AND GULF OF MEXICO, BY SPECIES AND COUNTRY, 1979
(FINAL)

Item	Directed fisheries					Incidental catch				Total
	Red hake	Silver hake	Sharks except dogfish	Short-finned squid	Long-finned squid	Atlantic mackerel	Butterfish (1)	River herring (2)	Other finfish	
	Metric tons, round weight									
Optimum yield	32,000	98,800	6,150	30,000	44,000	15,500	18,000	10,000	247,000	(3)519,450
U.S. capacity	8,600	46,600	5,000	6,000	14,000	14,300	14,000	9,500	200,200	(3)336,200
Reserve	0	0	0	0	0	0	0	0	0	0
TALFF	23,400	52,200	1,150	24,000	30,000	1,200	4,000	500	46,800	183,250
Country allocations										
EEC:										
Federal Rep. of Germany	150	300	0	75	1,750	15	150	12	619	3,071
Ireland	75	75	0	210	75	10	10	10	413	878
Italy	354	1,298	0	3,142	2,805	142	354	13	1,412	9,520
German Democratic Republic	100	1,000	0	75	75	10	10	10	413	1,693
Japan	901	2,540	0	3,600	9,676	169	1,016	46	4,894	22,842
Mexico	640	1,240	0	3,850	6,000	96	640	40	4,128	16,634
Poland	127	1,000	0	3,359	875	35	37	14	1,551	6,998
Romania	100	1,000	0	75	75	20	10	10	413	1,703
Spain	931	1,695	0	6,480	8,193	132	876	57	5,731	24,095
USSR	15,592	31,322	0	3,104	476	471	497	197	20,560	72,219
Unallocated	4,430	10,730	1,150	30	0	100	400	91	6,666	23,597

(1) Allocated by country in proportion to long-finned squid fishery.
(2) Includes alewife, blueback herring, and hickory shad.
(3) Includes Atlantic herring of 18,000 metric tons in 1979, which had a TALFF in 1977.

Source:--Country allocations are from the U.S. Department of State, Office of Fisheries Affairs; all other data are from the National Marine Fisheries Service, Office of Resource Conservation and Management.

OPTIMUM YIELD, U.S. CAPACITY, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS: WASHINGTON, OREGON, AND CALIFORNIA, BY SPECIES AND COUNTRY, 1979 (FINAL)

Item	Directed fisheries	Incidental catch						Total
	Pacific hake (whiting)	Jack mackerel	Flounders	Pacific ocean perch	Other rockfishes	Sablefish	Other species	
	Metric tons, round weight							
Optimum yield (OY) . .	198,900	55,000	31,000	1,000	18,000	7,000	4,200	315,100
U.S. capacity .	37,500	50,158	30,838	899	16,810	6,838	3,392	146,435
Reserve	0	0	0	0	2	0	0	0
TALFF	161,400	(1)4,842	(2)162	(3)101	(4)1,188	(2)162	(5)808	168,663
Country allocations								
Canada.	0	0	0	0	0	0	0	0
Mexico.	6,000	180	6	3	45	6	30	6,270
Poland.	23,323	699	24	15	171	30	116	24,378
USSR.	132,077	3,963	132	83	972	126	662	138,015
Unallocated . .	0	0	0	0	0	0	0	0

(1) 3.0 percent of the hake TALFF.
(2) 0.1 percent of the hake TALFF.
(3) 0.063 percent of the hake TALFF.
(4) 0.737 percent of the hake TALFF.
(5) 0.5 percent of the hake TALFF.

Source:--Country allocations are from the U.S. Department of State, Office of Fisheries Affairs; all other data are from the National Marine Fisheries Service, Office of Resource Conservation and Management.

OPTIMUM YIELD, U.S. CAPACITY, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS:
GULF OF ALASKA, BY SPECIES AND COUNTRY, 1979
(FINAL)

Item	Directed fisheries									Incidental catch	Total
					Rockfishes						
	Alaska pollock	Atka mackerel	Flounders	Pacific cod	Pacific ocean perch	Other	Rattail	Sablefish	Squid	Other species	
	Metric tons, round weight										
Optimum yield	168,800	26,800	33,500	34,800	25,000	7,600	13,200	13,000	5,000	16,200	343,900
U.S. capacity	6,100	-	1,300	4,000	400	700	1,332	4,000	-	300	18,132
Reserve	5,500	25	175	1,500	1,850	225	-	195	25	150	9,645
TALFF	157,200	26,775	32,025	29,300	22,750	6,675	11,868	8,805	4,975	15,750	316,123
Country allocations											
Japan	38,279	2,718	26,868	17,578	7,473	1,833	10,071	7,125	1,415	4,642	118,002
Mexico	12,170	456	600	4,700	2,119	1,068	110	200	800	1,450	23,673
Poland	19,523	1,254	890	724	1,130	154	155	70	488	1,204	25,592
Rep. of Korea	27,930	520	830	2,354	4,199	1,838	808	985	720	2,867	43,051
USSR	59,298	21,827	2,837	3,944	7,829	1,782	724	425	1,552	5,587	105,805

Source:--Country allocations are from the U.S. Department of State, Office of Fisheries Affairs; all other data are from the National Marine Fisheries Service, Office of Resource Conservation and Management.

OPTIMUM YIELD, U.S. CAPACITY, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS:
BERING SEA AND ALEUTIAN ISLANDS, BY SPECIES AND COUNTRY, 1979
(FINAL)

Item	Directed fisheries					
			Flounders			
	Alaska pollock	Atka mackerel	Yellowfin sole	Other	Herring	Pacific cod
	Metric tons, round weight					
Optimum yield	950,000	24,800	106,000	139,000	18,670	58,000
U.S. capacity	0	0	0	0	10,000	0
Reserve	0	0	0	0	0	1,500
TALFF	950,000	24,800	106,000	139,000	8,670	56,500
Country allocations						
China, Taiwan	5,000	100	150	150	25	100
Japan	774,630	2,000	61,910	81,842	2,413	36,940
Poland	25,000	500	750	750	125	500
Rep. of Korea	85,000	1,750	2,600	2,600	450	2,850
USSR	60,370	20,450	40,590	53,658	5,657	16,110

Item	Directed fisheries					Incidental catch	Total
	Pacific ocean perch	Sablefish	Snails (meats)	Snow (tanner) crabs	Squid	Other species	
	Metric tons, round weight						
Optimum yield	21,500	4,500	3,000	68,556	10,000	93,600	1,497,626
U.S. capacity	0	0	0	53,556	0	0	63,556
Reserve	0	600	0	0	0	0	2,100
TALFF	21,500	3,900	3,000	15,000	10,000	93,600	1,431,970
Country allocations							
China, Taiwan	75	50	0	0	100	493	6,243
Japan	9,280	2,400	3,000	15,000	5,900	68,270	1,063,585
Poland	250	250	0	0	500	2,463	31,088
Rep. of Korea	1,000	600	0	0	1,750	8,374	106,974
USSR	10,895	600	0	0	1,750	14,000	224,080

Source:--Country allocations are from the U.S. Department of State, Office of Fisheries Affairs; all other data are from the National Marine Fisheries Service, Office of Resource Conservation and Management.

OPTIMUM YIELD, U.S. CAPACITY, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS:
WESTERN PACIFIC SEAMOUNT GROUNDFISH FISHERY,
BY SPECIES AND COUNTRY, 1979
(FINAL)

Item	Directed fisheries
	Pelagic armorheads, alfonsins, and other groundfish (1)
	- - - - - - Metric tons, round weight - - - - - -
Optimum yield.	2,000
U.S. capacity	0
Reserve	0
TALFF	(1) 2,000
Country allocations	
Japan	1,000
China, Taiwan	1,000

(1) The TALFF for armorheads, alfonsins, and other groundfish resources is subject to additional restrictions on total effort by foreign fishing vessels. No more than 50 vessel days of trawling and 50 vessel days of bottom longlining will be allowed in this fishery.

Source:--U.S. Department of State, Office of Fisheries Affairs.

OPTIMUM YIELD, U.S. CAPACITY, RESERVE, TALFF, AND FOREIGN ALLOCATIONS: BY COUNTRY AND REGION, 1980 (AS OF MARCH 25, 1980) (1)

Item	North Atlantic	Washington, Oregon, and California	Gulf of Alaska	Bering Sea and Aleutian Islands	Seamount	Total
	Metric tons, round weight					
Optimum yield (OY)	477,650	352,200	374,750	1,677,410	2,000	2,884,010
U.S. capacity	305,100	211,125	50,063	156,094	0	722,382
Reserve	0	36,575	56,622	75,014	0	168,211
TALFF	172,550	104,500	268,065	1,446,302	2,000	1,993,417
Country allocations						
Bulgaria	7,525	0	0	0	0	7,525
China, Taiwan	0	0	0	6,646	1,000	7,646
Cuba	7,525	0	0	0	0	7,525
EEC:						
Federal Republic of Germany	1,590	0	0	0	0	1,590
Ireland	210	0	0	0	0	210
Italy	11,775	0	0	0	0	11,775
German Democratic Republic	695	0	0	0	0	695
Japan	22,370	0	105,373	1,045,725	1,000	1,174,468
Mexico	14,705	0	21,108	0	0	35,813
Poland	9,510	0	24,399	39,278	0	73,187
Republic of Korea	0	0	35,480	110,851	0	146,331
Romania	7,525	0	0	0	0	7,525
Spain	21,800	0	0	0	0	21,800
USSR	0	0	73,337	3,543	0	76,880
Unallocated	67,320	104,500	8,368	240,259	0	420,447

(1) Except North Atlantic, which is February 12, 1980.

Note:--TALFF = OY minus U.S. capacity minus Reserve. (See Glossary.) Table only includes species for which there was a foreign fishery. Species prohibited to foreign fishing are not included.

Source:--OY, U.S. capacity, Reserve, and TALFF are from the Office of Resource Conservation and Management. Country allocations are from the U.S. Department of State, Office of Fisheries Affairs.

OPTIMUM YIELD, U.S. CAPACITY, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS:
NORTH ATLANTIC AND GULF OF MEXICO, BY SPECIES AND COUNTRY, 1980
(AS OF FEBRUARY 12, 1980)

Item	Directed fisheries					Incidental catch				Total
	Red hake	Silver hake	Sharks, except dogfish	Long-finned squid	Short-finned squid	Atlantic mackerel	Butterfish (1)	River herring (2)	Other finfish	
	Metric tons, round weight									
Optimum yield	17,000	90,000	6,150	44,000	30,000	15,500	18,000	10,000	247,000	477,650
U.S. capacity	8,500	29,600	5,000	14,000	10,000	14,300	14,000	9,500	200,200	305,100
Reserve	0	0	0	0	0	0	0	0	0	0
TALFF	8,500	60,400	1,150	30,000	20,000	1,200	4,000	500	46,800	172,550
Country allocations										
Bulgaria	500	5,000	0	0	0	0	0	25	2,000	7,525
Canada	No allocations have been made to date.									
Cuba	500	5,000	0	0	0	0	0	25	2,000	7,525
EEC:										
Federal Rep. of Germany	0	0	0	1,500	90	0	0	0	0	1,590
France	0	0	0	0	0	0	0	0	0	0
Ireland	0	0	0	0	210	0	0	0	0	210
Italy	500	2,000	0	3,600	3,500	25	100	50	2,000	11,775
German Democratic Republic	50	500	0	0	0	20	75	25	25	695
Japan	1,000	2,000	0	10,000	4,000	70	250	50	5,000	22,370
Mexico	500	1,000	0	5,000	4,000	30	125	50	4,000	14,705
Poland	500	5,000	0	900	1,000	10	50	50	2,000	9,510
Romania	500	5,000	0	0	0	0	0	25	2,000	7,525
Spain	500	1,000	0	8,000	7,000	50	200	50	5,000	21,800
USSR	0	0	0	0	0	0	0	0	0	0
Unallocated	3,950	33,900	1,150	1,000	200	995	3,200	150	22,775	67,320

(1) Allocated by country in proportion to long-finned squid fishery.

(2) Includes alewife, blueback herring, and hickory shad.

Source:--Country allocations are from the U.S. Department of State, Office of Fisheries Affairs; all other data are from the National Marine Fisheries Service, Office of Resource Conservation and Management.

OPTIMUM YIELD, U.S. CAPACITY, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS:
WASHINGTON, OREGON, AND CALIFORNIA, BY SPECIES AND COUNTRY, 1980
(AS OF MARCH 25, 1980)

Item	Directed fisheries	Incidental catch						
				Rockfishes				
	Pacific hake (whiting)	Jack mackerel	Flounders	Pacific ocean perch	Other	Sablefish	Other species	Total
	Metric tons, round weight							
Optimum yield (OY)	175,000	55,000	38,400	1,000	43,300	13,400	26,100	352,200
U.S. capacity	40,000	50,950	38,265	915	42,305	13,265	25,425	211,125
Reserve	35,000	1,050	35	22	258	35	175	36,575
TALFF	100,000	(1)3,000	(2)100	(3)63	(4)737	(2)100	(5)500	104,500
Country allocations								
Canada	No allocations have been made to date.							
Mexico	No allocations have been made to date.							
Poland	No allocations have been made to date.							
USSR	No allocations have been made to date.							
Unallocated	No allocations have been made to date.							

(1) 3.0% of the hake TALFF.
(2) 0.1% of the hake TALFF.
(3) 0.063% of the hake TALFF.
(4) 0.8% of the hake TALFF.
(5) 0.5% of the hake TALFF.

Source:--Country allocations are from the U.S. Department of State, Office of Fisheries Affairs, all other data are from the National Marine Fisheries Service, Office of Resource Conservation and Management.

OPTIMUM YIELD, U.S. CAPACITY, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS:
GULF OF ALASKA, BY SPECIES AND COUNTRY,
(AS OF MARCH 25, 1980)

Item	Directed fisheries										Incidental catch	Total
					Rockfishes							
	Alaska pollock	Atka mackerel	Flounders	Pacific cod	Idiot	Pacific ocean perch	Other	Rattail	Sablefish	Squid	Other species	
	Metric tons, round weight											
Optimum yield	168,800	28,700	33,500	60,000	3,750	25,000	7,600	13,200	13,000	5,000	16,200	374,750
U.S. capacity.	21,310	2,070	3,180	10,000	6	2,915	900	1,332	6,480	150	1,720	50,063
Reserve.	25,320	4,305	5,025	9,000	562	3,750	1,195	1,980	2,305	750	2,430	56,622
TALFF.	122,170	22,325	25,295	41,000	3,182	18,335	5,505	9,888	4,215	4,100	12,050	268,065
Country allocations												
Japan.	28,100	1,994	14,035	29,000	1,975	10,665	2,355	8,979	2,590	1,116	4,564	105,373
Mexico	10,628	1,255	1,680	2,250	220	2,060	820	100	285	900	910	21,108
Poland	17,610	429	1,655	1,930	104	825	70	105	160	326	1,185	24,399
Rep. of Korea.	20,769	683	3,460	4,350	370	1,860	735	569	480	663	1,541	35,480
USSR	40,942	16,730	3,960	3,080	500	2,620	200	100	640	990	3,575	73,337
Unallocated.	4,121	1,234	505	390	13	305	1,325	35	60	105	275	8,368

Source:--Country allocations are from the U.S. Department of State , Office of Fisheries Affairs; all other data are from the National Marine Fisheries Service, Office of Resource Conservation and Management.

OPTIMUM YIELD, U.S. CAPACITY, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS:
BERING SEA AND ALEUTIAN ISLANDS, BY SPECIES AND COUNTRY, 1980
(AS OF MARCH 25, 1980)

Item	Directed fisheries								
			Flounders						
	Alaska pollock	Atka mackerel	Turbots	Yellowfin sole	Other	Herring	Pacific cod		
	Metric tons, round weight								
Optimum yield	1,100,000	24,800	90,000	117,000	61,000	41,200	58,700		
U.S. capacity	19,550	410	1,075	2,050	1,300	33,200	24,265		
Reserve	50,000	930	4,500	5,850	3,050	2,000	2,935		
TALFF	1,030,450	23,460	84,425	109,100	56,650	6,000	31,500		
Country allocations									
China, Taiwan	5,431	100	80	100	100	25	200		
Japan	793,989	1,900	49,700	63,700	33,400	3,550	22,000		
Poland	34,471	390	445	900	150	125	300		
Rep. of Korea	91,325	1,670	1,600	2,600	1,100	400	4,000		
USSR (1)	2,156	937	0	6	0	428	11		
Unallocated	103,078	18,463	32,600	41,794	21,900	1,472	4,989		

Item	Directed fisheries							Incidental catch	Total
	Rockfishes				Snow crabs				
	Pacific ocean perch	Other	Sablefish	Snails (meats)	bairdi	opilio	Squid	Other species	
	Metric tons, round weight								
Optimum yield	10,750	7,727	5,000	3,000	15,000	58,984	10,000	74,249	1,677,410
U.S. capacity	2,760	1,550	1,400	0	15,000	51,484	50	2,000	156,094
Reserve	537	500	500	0	0	0	500	3,712	75,014
TALFF	7,453	5,677	3,100	3,000	0	7,500	9,450	68,537	1,446,302
Country allocations									
China, Taiwan	100	50	60	0	0	0	100	300	6,646
Japan	4,953	3,883	1,880	3,000	0	7,500	5,570	50,700	1,045,725
Poland	150	50	220	0	0	0	480	1,597	39,278
Rep. of Korea	600	296	470	0	0	0	1,650	5,140	110,851
USSR (1)	5	0	0	0	0	0	0	0	3,543
Unallocated	1,645	1,398	470	0	0	0	1,650	10,800	240,259

(1) This catch was made between Jan. 1 and Jan. 11, 1980. No further catches were made pursuant to Executive Order.

Source:--Country allocations are from the U.S. Department of State, Office of Fisheries Affairs.; all other data are from the National Marine Fisheries Service, Office of Resource Conservation and Management.

OPTIMUM YIELD, U.S. CAPACITY, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS:
WESTERN PACIFIC SEAMOUNT GROUNDFISH FISHERY,
BY SPECIES AND COUNTRY, 1980
(As of MARCH 25, 1980)

Item	Directed fisheries
	Pelagic armorheads, alfonsins, and other groundfish (1)
	- - - - - - Metric tons, round weight - - - - - -
Optimum yield.	2,000
U.S. capacity	0
Reserve	0
TALFF	(1) 2,000
Country allocations	
Japan	1,000
China, Taiwan	1,000

(1) The TALFF for armorheads, alfonsins, and other groundfish resources is subject to additional restrictions on total effort by foreign fishing vessels. No more than 50 vessel days of trawling and 50 vessel days of bottom longlining will be allowed in this fishery.

Source:--U.S. Department of State, Office of Fisheries Affairs.

UNITED STATES DEPARTMENT OF COMMERCE

WASHINGTON, DC 20235

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A	National Oceanic and Atmospheric Administration Administrator, Richard A. Frank 14th and E Sts., NW. Washington, DC 20230	202-377-3567	Commerce
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F/SER	Southeast Region Director, William H. Stevenson Duval Bldg., 9450 Koger Blvd. St. Petersburg, FL 33702	813-893-3142	St. Petersburg, FL
F/SWR	Southwest Region Director, Vacant 300 South Ferry St. Terminal Island, CA 90731	213-548-2575	Terminal Island, CA
F/SWR1	Western Pacific Program Office Doyle E. Gates, Administrator 2570 Dole St., Box 3830 Honolulu, HI 96812	808-946-2181	Honolulu, HI
F/NWR	Northwest Region Director, Vacant 1700 Westlake Ave., North Seattle, WA 98109	206-442-7575	Seattle, WA
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	FISHERIES CENTERS AND LABORATORIES		
F/NWC	Northwest and Alaska Fisheries Center Director, Murray L. Hayes 2725 Montlake Blvd., East Seattle, WA 98112	206-442-4760	Seattle, WA
F/NWCx9	Auke Bay Laboratory Director, William Smoker P.O. Box 155 Auke Bay, AK 99615	907-789-7231	Auke Bay, AK
F/NWC81	Kodiak Laboratory Director, Robert Wolotira P.O. Box 1638 Kodiak, AK 99615	907-487-4961	Kodiak, AK
F/SEC	Southeast Fisheries Center Director, William W. Fox, Jr. 75 Virginia Beach Dr. Miami, FL 33149	305-361-5761	Miami, FL
F/SEC1	Miami Laboratory Director, William J. Richards Address same as above	Same as above	
F/SEC2	Mississippi Laboratories Director, Andrew J. Kemmerer National Space Technology Labs NSTL Station, MS 39529	601-688-3650	NSTL Station, MS
F/SEC22	Pascagoula Facility Acting Chief, Wilbur R. Seidel 3209 Frederick St., P.O. Drawer 1207 Pascagoula, MS 39567	601-762-4591	Pascagoula, MS
F/SEC5	Panama City Laboratory Director, Eugene L. Nakamura P.O. Box 4218 Panama City, FL 32401	904-234-6541	Panama City, FL

(Continued)

Mail routing code		Telephone number	Location
	FISHERIES CENTERS AND LABORATORIES - Continued		
F/SEC6	Galveston Laboratory Director, Edward J. Klima 4700 Avenue U Galveston, TX 77550	713-763-1211 Ext. 501	Galveston, TX
F/SEC8	Charleston Laboratory Director, Harry L. Seagran P.O. Box 12607 Charleston, SC 29412	803-724-4770	Charleston, SC
F/SEC9	Beaufort Laboratory Director, Theodore Rice P.O. Box 570 Beaufort, NC 28516	919-728-4595	Beaufort, NC
F/NEC	Northeast Fisheries Center Director, Robert L. Edwards Woods Hole, MA 02543	617-548-5123	Woods Hole, MA
F/NEC1	Woods Hole Laboratory Director, Richard C. Hennemuth Woods Hole, MA 02543	617-548-5123	Woods Hole, MA
F/NEC2	Narragansett Laboratory Director, Kenneth Sherman Route 7A, P.O. Box 522A Narragansett, RI 02882	401-789-9326	Narragansett, RI
F/NEC3	Milford Laboratory Director, James E. Hanks Milford, CT 06460	203-878-2459	Milford, CT
F/NEC4	Sandy Hook Laboratory Director, Carl J. Sindermann P.O. Box 428 Highlands, NJ 07732	201-872-0200	Highlands, NJ
F/NEC5	Oxford Laboratory Director, Aaron Rosenfield Oxford, MD 21654	301-226-5193	Oxford, MD
F/NEC6	Gloucester Laboratory Director, Louis J. Ronsivalli Emerson Ave., P.O. Box 61 Gloucester, MA 01930	617-281-3600 Ext. 237	Gloucester, MA
F/NEC7	National Systematics Laboratory Director, Daniel M. Cohen 10th St. and Constitution Ave., NW. Washington, DC 20560	202-381-5795	Washington, DC
F/NEC8	Atlantic Environmental Group Director, Merton C. Ingham Route 7A, P.O. Box 522A Narragansett, RI 02882	401-789-9326	Narragansett, RI
F/SWC	Southwest Fisheries Center Director, Izadore Barrett 8604 La Jolla Shores Dr. P.O. Box 271 La Jolla, CA 92038	714-453-2820	La Jolla, CA
F/SWC2	Honolulu Laboratory Director, Richard S. Shomura 2570 Dole St., P.O. Box 3830 Honolulu, HI 96812	808-946-2181	Honolulu, HI
F/SWC3	Tiburon Laboratory Director, Norman Abramson 3150 Paradise Dr. Tiburon, CA 94920	415-435-3149	Tiburon, CA
F/SWC4	Pacific Environmental Group Chief, Gunter Seckel c/o Fleet Numerical Weather Central Monterey, CA 93940	408-373-3331	Monterey, CA

(Continued)

NATIONAL MARINE FISHERIES SERVICE
RESOURCE STATISTICS OFFICES

City	Telephone number	Name and address
		NORTHEAST REGION
NEW ENGLAND		
Eastport	207-853-4386	J. Philip Wentworth, 27 Washington St., Eastport, ME 04631
Portland	207-780-3322	Robert C. Morrill, U.S. Custom House, Room 16 Portland, ME 04101
Rockland	207-594-5969	Richard C. Barnard, Federal Bldg., Room 217 Rockland, ME 04841
(1)Gloucester	617-281-3600 Ext. 267	Frank Riley, 7 Pleasant St., Gloucester, MA 01930
Gloucester	617-281-3600 Ext. 304	Vito P. Giacalone, Jones-Hunt Bldg., Emerson Ave., Gloucester, MA 01930
New Bedford	617-997-0721 Ext. 256	Dennis E. Main, U.S. Custom House, 2nd and Williams Sts., New Bedford, MA 02360
Plymouth	617-746-6700	Paul O. Swain, Post Office Bldg., Plymouth, MA 02360
Provincetown	617-487-0868	William D. Sprague, Post Office Bldg., P.O. Box 91, Provincetown, MA 02657
Woods Hole	617-548-5123	Ronnee L. Schultz, Northeast Fisheries Center, Woods Hole, MA 02543
Newport	401-847-3115	Vacant, Post Office Bldg., Newport, RI 02840
Pt. Judith	401-783-7797	Susan Murphy, P.O. Box 547, Pt. Judith, RI 02882
MIDDLE ATLANTIC		
Greenport	516-477-2425	Emerson C. Hasbrouck, Jr., 41 Front St., P.O. Box 7, Greenport, L.I., NY 11944
Patchogue	516-475-6988	Fred C. Blossom, P.O. Box 606, Patchogue, L.I., NY 11772
Pt. Pleasant	201-349-3533	Eugene J. Steady, 26 Main St., P.O. Box 143, Toms River, NJ 08753
Toms River	201-349-3533	Eugene A. LoVerde, P.O. Box 143, Toms River, NJ 08753
Cape May	609-884-2113	Patricia A. Heying, P.O. Box 624, Cape May, NJ 08204
CHESAPEAKE		
Easton	301-822-6976	William E. Brey, P.O. Box 356, Easton, MD 21601
Greenbackville	804-824-4725	George Ward, Biological Lab., Franklin City, Greenbackville, VA 23356
Hampton	804-723-3360	William N. Kelly, P.O. Box 447, Hampton, VA 23669
GREAT LAKES and NORTHERN MISSISSIPPI RIVER AREA		
Ann Arbor	617-281-3600 Ext. 298	John G. Terrill, 7 Pleasant St., Gloucester, MA 01930
		SOUTHEAST REGION
SOUTH ATLANTIC		
Beaufort	919-728-4595	Kenneth C. Harris, Pivers Island, P.O. Box 500, Beaufort, NC 28516
Charleston	803-724-4691	John C. DeVane, Jr., 217 Ft. Johnson Rd., P.O. Box 12607, James Island, SC 29412
Brunswick	912-265-7080	Ted M. Flowers, Federal Bldg., Room 302, 801 Gloucester St., Brunswick, GA 31520
New Smyrna Beach	--	Elmer C. Allen, P.O. Box 566, New Smyrna Beach, FL 32069
(1)Miami	305-361-5761	Kimrey D. Newlin, 74 Virginia Beach Dr., Miami, FL 33149
Miami	305-361-5761	J. Ernest Snell, Address same as above
Key West	305-294-1921	Peter W. Maley, Post Office & Custom House Bldg., P.O. Box 269, Key West, FL 33040

(1) Regional headquarters for statistics offices.

(Continued)

NATIONAL MARINE FISHERIES SERVICE
RESOURCE STATISTICS OFFICES - Continued

City	Telephone Number	Name and Address
GULF		
Fort Myers	813-334-4364	James E. Naughton, P.O. Box 217, Federal Bldg., Fort Myers, FL 33902
St. Petersburg	813-893-3151	Betty J. Guisinger, 9450 Koger Blvd., St. Petersburg, FL 33702
St. Petersburg	813-893-3151	Lucius Johnson, Address same as above.
Apalachicola	904-653-9500	Percy E. Thompson, Post Office Bldg., P.O. Drawer 189, Apalachicola, FL 32320
Pensacola	904-478-5258	Margot M. Hightower, P.O. Box 585, Pensacola, FL 32593
Gulf Shores	205-968-6237	Glenwood Montgomery, P.O. Box 744, Gulf Shores, AL 36542
Bayou La Batre	205-824-4149	Donnie J. Bond, P.O. Box 591, D&H Furniture Bldg., Bayou La Batre, AL 36509
Pascagoula	601-762-4591	Hermes G. Hague, P.O. Drawer 1207, Pascagoula, MS 39567
Galliano	504-475-7072	Morrison P. Duet, P.O. Box 162, Galliano, LA 70354
Houma	504-872-3321	Leryes J. Usie, Post Office Bldg., 423 Lafayette St., Houma, LA 70360
New Iberia	318-365-1558	Thomas S. Searcy, 107 E. Main St., New Iberia, LA 70560
New Orleans	504-589-6151	Orville M. Allen, 546 Carondelet St., New Orleans, LA 70130
Aransas Pass	512-758-3787	Madeline Bailey, Coastal Net and Supply Bldg., Conn Brown Harbor, P.O. Drawer EE, Aransas Pass, TX 78336
Aransas Pass	512-758-3787	Mary Magec, Address same as above
Brownsville	512-831-4050	Thomas N. Scott, Harbor Masters Bldg., Shrimp Basin, P.O. Box 467, Brownsville, TX 78520
Brownsville	512-831-4050	Edie Hernandez, Address same as above
Brownsville	512-831-4050	Shirley Windhorst, Address same as above
Freeport	713-233-4551	Richard A. Allen, Brazosport Savings Center, P.O. Box 2533, Freeport, TX 77541
Galveston	713-763-1211 Ext. 106	Orman H. Farley, Bldg. 306, Fort Crockett, Galveston, TX 77550
Galveston	713-763-1211 Ext. 106	Carlton Furr, Address same as above
Galveston	713-763-1211 Ext. 106	James Morgan, Address same as above
Port Arthur	713-985-7871	Rene Labadens, Federal Office Bldg., Port Arthur, TX 77640
		SOUTHWEST REGION
(1)Terminal Island	213-548-2571	James R. Bybee, Customs House, Box 3266, 300 S. Ferry St., Terminal Island, CA 90731
Honolulu	808-946-2181	Doyle E. Gates, Honolulu Lab., P.O. Box 3830, Honolulu, HI 96812
		NORTHWEST REGION
(1)Seattle	206-442-5230	John K. Bishop, 1700 Westlake Ave. North, Seattle, WA 98109
		ALASKA REGION
(1)Juneau	907-586-7228	Janet E. Smoker, P.O. Box 1668, Juneau, AK 99801

(1) Regional headquarters for statistics offices.

PUBLICATIONS

FISHERY MARKET NEWS REPORTS

MARKET NEWS REPORTS

Fishery Market News reports show daily landings, and market receipts, weekly and monthly cold-storage holdings, daily exvessel prices, weekly wholesale prices of fresh and frozen products, foreign trade data, current market developments, and other information for major fishery trading centers in the United States. The reports are issued from Boston, New York, New Orleans, Terminal Island, and Seattle.

You can order either the full service report (includes the weekly summary) or only the weekly summary. The full-service report is issued Monday, Wednesday, and Friday. The weekly summary is issued on Friday. The full service costs $35 a year. The Friday weekly summary costs $15 a year. The subscription period is 1 year beginning the first of the month following receipt of the order. For more information contact the nearest market news office. Free samples on request.

DIRECTORY

GLOUCESTER (Issues no printed report)

Robert A. Hall, Chief
Northeast Region Market News Branch
P.O. Box 1109, Dale Ave.
Post Office Bldg., Room 205
Gloucester, MA 01930
617-281-3600, Ext. 225

BOSTON BLUE SHEET

Louis R. O'Donnell, Supervisor
Commonwealth Pier,
Boston, MA 02210
617-542-6070

NEW YORK GREEN SHEET

Joseph Ledner, Supervisor
201 Varick St.
New York, NY 10014
212-620-3405

DIRECTORY - Continued

HAMPTON (Issues no printed report)

Carolyn S. Gearhart, Reporter
P.O. Box 447
222 E. Queen St., Room 215
Hampton, VA 23669
804-723-3369

NEW ORLEANS GOLDENROD SHEET

Edward J. Barry, Supervisor
546 Carondelet St., Room 412
New Orleans, LA 70130
504-589-6151

TERMINAL ISLAND BUFF SHEET

James R. Bybee, Chief
P.O. Box 3266
300 South Ferry St.
Terminal Island, CA 90731
213-548-2572

SEATTLE PINK SHEET

John K. Bishop, Chief
1700 Westlake Ave., North, Room 732
Seattle, WA 98109
206-442-5230

CHICAGO (Issues no printed report)

Alphonse A. Autin, Reporter
610 South Canal St., Room 816
Chicago, IL 60607
312-353-5772

MESSAGE CENTERS

Recorded current market information is available around the clock at the following message centers:

Boston, MA 617-542-7878
Landings and exvessel prices at Boston, Gloucester, and New Bedford, MA.

Chicago, IL 312-353-2260
Wholesale prices for frozen headless shrimp in Chicago.

Gloucester, MA 617-283-1101
Boston landings and exvessel prices, New Bedford sea scallop and yellowtail flounder landings and prices, Gloucester landings.

New Bedford, MA 617-997-6565
Landings and exvessel prices at New Bedford.

Hampton, VA 804-723-0303
Landings and exvessel prices for New Bedford and Boston and landings at Fulton Market in New York announced from 10:30 a.m. to 3:00 p.m., Monday through Friday. Wholesale prices on New York Fulton Market announced 3:30 p.m. until 10:00 a.m. the following day, Monday through Thursday. Friday only, weekly summary of landings in the Hampton Roads area.

New York, NY 212-620-3577
Landings and exvessel prices at New York City, Boston, Gloucester, and New Bedford announced 10:15 a.m. to 3:00 p.m. Wholesale prices on New York Fulton Market announced 3:15 p.m. to 10:00 a.m. the following day.

New York, NY 212-620-3244
Frozen seafood wholesale selling prices.

FISHERY MARKET NEWS REPORTS: INDEX

DAILY AND OTHER DATA PUBLISHED MONDAY, WEDNESDAY, AND FRIDAY

	BOSTON BLUE SHEET	NEW YORK GREEN SHEET	NEW ORLEANS GOLDENROD SHEET	TERMINAL ISLAND BUFF SHEET	SEATTLE PINK SHEET
Landings	New England Major Ports New York City	New England Major Ports New York City Gulf Area Finfish and Shrimp	Gulf Finfish, Shrimp, and Shellfish, by Area North Carolina, by District Florida Spiny Lobster Alaska Shrimp	Tuna and California Anchovy, Bonito, Mackerel, and Squid San Pedro Market Fish Otter Trawl Landings (Weekly)	Alaska Halibut, Salmon Alaska Groundfish Alaska Shellfish Oregon, all Fisheries Washington, all Fisheries
Market Receipts (Truck, air, rail, vessel)	Boston Shippers' Market and Live Lobsters	New York Fulton Market	New Orleans New York Fulton Market, Selected Shellfish Chicago Shrimp Shellfish	San Pedro Market Fish	Seattle (except canned) Washington Oysters Alaska Coastwise Vessels
Cannery Receipts	– –	– –	Shrimp	Tuna and Bonito, California Mackerel, and Squid	– –
Imports	New England Chicago Detroit, Mich. Pembina, N.D. Frozen Blocks by Species and Country Selected Products by Country of Origin	New York City Customs District Shrimp by Country of Origin (monthly) Shrimp by Size (weekly on Wed.)	Gulf Area Shrimp by Country of Origin Shrimp by Size	Tuna and Bonito by Species, Type, and Country. Arizona and Calif. Mexican Shrimp Shrimp by Size Selected Products by Country of Origin	Washington and Oregon Selected Products by Country of Origin
Cold Storage Holdings	New England (Weekly) National (Monthly)	– – National (Monthly)	– – National (Monthly)	– – National (Monthly)	Northwest (Monthly) National (Monthly)
Canned Pack	– –	– –	– –	Tuna and Bonito	– –
Exvessel Prices	Boston and New Bedford Auction Sales Live Lobsters (Mass.)	Boston and New Bedford Auction Sales	– –	Tuna and Bonito Eureka-Crescent City Otter Trawl Fishery	Alaska Halibut, Salmon Alaska Groundfish Alaska Shellfish Oregon, all Fisheries Washington, all Fisheries
Wholesale Prices (Fresh and frozen)	Boston Shellfish (Wed.) Live Lobsters (Bought by Wholesaler) Chicago Freshwater	New York Salt-water Finfish-Shellfish and Freshwater Finfish	New Orleans and Chicago Shrimp New York Shellfish Chicago Shrimp New York Shellfish	New England Frozen Fish Blocks	New York Halibut and Salmon Boston, Gloucester, and New Bedford Frozen Fish
Processors; Importers; and Brokers' Prices	Frozen Blocks, Fillets, Shellfish Specialty Items, (Chicago, Boston, New Bedford, and Gloucester) (Weekly on Wed.)	Frozen Shrimp, Lobster Tails, Other Shellfish, Fillets Specialty Items, etc. (Weekly on Fri.)	New York Frozen Shrimp, and Lobster Tails Fish Meal Oil and Solubles, (Weekly on Wed.)	Canned Tuna and Bonito New England Frozen Blocks Fish Meal, Oil, and Solubles	Canned Salmon, Crab, and Shrimp Frozen Shrimp and Crab Washington Oysters Fish Meal, Oil, and Solubles

OTHER INFORMATION, ALL OFFICES: News Releases, NMFS and Council Notices, Export Opportunity, Selected Export Data, Situation and Outlook Reports, Selected Air and Rail Shipments, Foreign Fishing off U.S. Coasts, International News (IFR).

WEEKLY SUMMARY EVERY FRIDAY

In addition to the usual daily and other data, the Weekly Summary part of the Friday reports contain these special weekly features:

Landings	New England Ports	Chesapeake and North Carolina Areas	Shrimp	California Tuna, Bonito, Mackerel, and Anchovy Fisheries Otter Trawl Landings	Alaska Groundfish Alaska Shellfish Otter Trawl-Seattle
Market Receipts	Chicago Freshwater Boston Lobster	New York Fulton Market Selected Species	– –		Truck Shipments from Alaska Coastwise Vessels from Alaska Washington Oysters
Canned Pack	– –	– –	Gulf Oyster and Shrimp	– –	Alaska Canned Salmon Pack in Season
Imports	– –	– –	– –	Shrimp from Mexico	Oregon and Washington
Exvessel Prices	Boston and New Bedford	– –	Weighted Average for Shrimp by Area and Size	– –	– –
Wholesale Prices	Live Lobster Market Chicago Freshwater	New York Fulton Market Selected Species	New Orleans Fresh Fish	– –	–

PUBLICATIONS

PUBLICATIONS AVAILABLE FROM NATIONAL MARINE FISHERIES SERVICE, NOAA

Shellfish Market Review

Food Fish Market Review

Fish Meal and Oil Market Review

Each of these reports is published on an irregular basis. The reports provide description and analysis of those economic factors affecting markets for fishery products. The narrative includes a review of market trends, both historical and recent, and an outlook for the near future. Statistical tables are presented for landings, production, imports, inventories, supplies, apparent consumption, and prices (exvessel, wholesale, and retail).

Operation Price Watch

This report is based on an informal NMFS survey of retail prices of fish and other items. The report is published monthly. It includes prices of surveyed items in each of 10 cities and three price indexes (fish, meat, and poultry). Because prices of some items, notably fresh fish, are not regularly available, they are not included in the 10-city averages, nor in the indexes. The three indexes differ from those published by the Bureau of Labor Statistics (BLS), which conducts separate formal surveys of retail prices for the Consumer Price Index (CPI).

The reports listed below are studies of the market for underutilized fish in the United States and 16 foreign countries.

Study Report of Export and Domestic Market Opportunities for Underutilized Fish and Shellfish.

Export Market Summaries for France, Belgium/Luxembourg Switzerland, W. Germany.

Export Market Summaries for Italy, Spain, Portugal, Greece.

Export Market Summaries for Denmark, Sweden, United Kingdom, Netherlands.

Export Market Summaries for Japan, Korea, Taiwan, Nigeria.

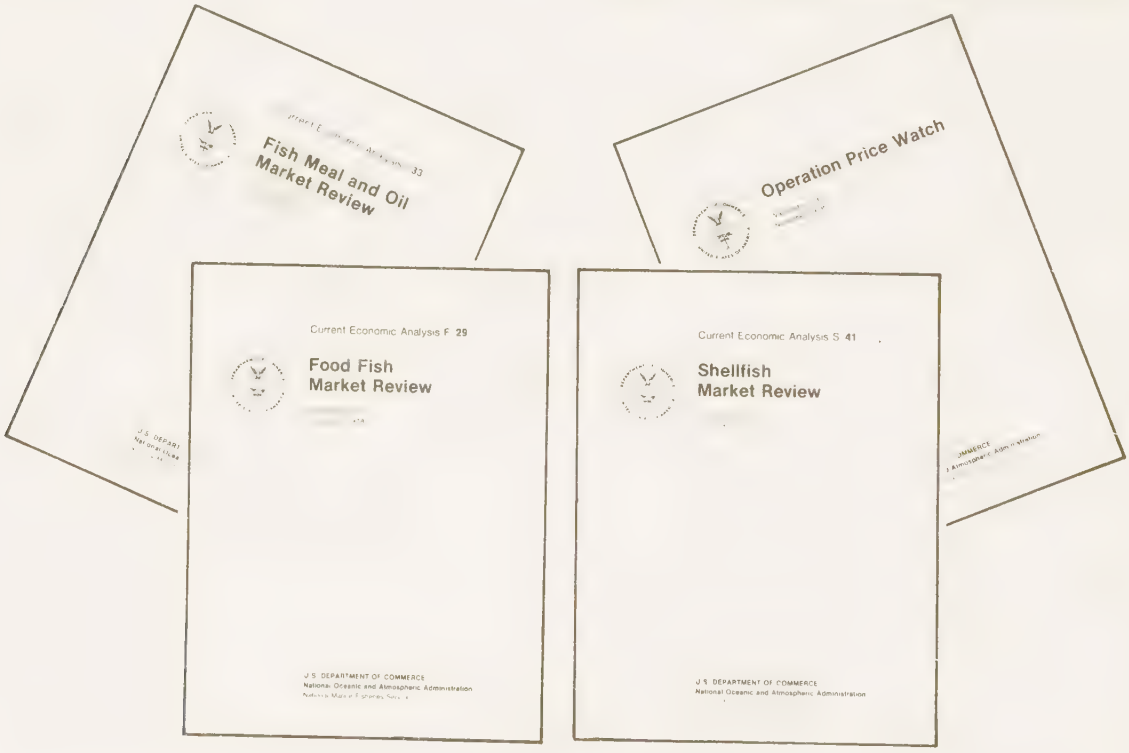
Prospectus for Development of the United States Fisheries.

The report below explores alternate marketing strategies for fishermen.

Seafood Marketing Problems: Marketing Orders and Other Alternatives for Fishermen, NOAA Technical Memorandum 1.

The following report contains information on obstacles to the retail sale of fresh seafood.

Survey of Chain Store Experiences and Attitudes Concerning the Marketing of Fresh Seafoods, NOAA Technical Memorandum 2.



FURTHER INFORMATION MAY BE OBTAINED FROM:

Fisheries Development Division (F/UD1)
National Marine Fisheries Service
Washington, DC 20235
Phone (202) 634-7451

PUBLICATIONS AVAILABLE FROM NATIONAL MARINE FISHERIES SERVICE, NOAA

A partial list of National Marine Fisheries Service (NMFS) publications is shown on this page. Information on other publications produced by NMFS may be obtained from:

User Services Branch (OA/D822)
Environmental Data and
Information Service, NOAA
Rockville, MD 20852
301-443-8330

CURRENT FISHERY STATISTICS (CFS) SERIES

The reports listed below are in the CFS (Current Fishery Statistics) series. They are statistical bulletins on marine recreational fishing and commercial fishing, and on the manfacture and commerce of fishery products. To obtain a subscription to these publications, check in the designated space ( ) and return to the originating office:

NOAA, National Marine Fisheries Service
Resource Statistics Division (F/SR1)
Washington, D.C. 20235
202-634-7366

Marine recreational fishing publications are released irregularly. If you wish a copy of the following publications, check in the designated space ( ) and return to the originating office shown above.

( ) Participation in Marine Recreational Fishing, Northeastern United States, 1973-74

( ) Participation in Marine Recreational Fishing, Southeastern United States, 1974

( ) Marine Recreational Fishery Statistics Survey, 1979

The following are preliminary bulletins on commercial landings. They are issued monthly and annually.

( ) GC-6 Shrimp Landings

( ) GCS Gulf Coast Shrimp Data

SCIENTIFIC PUBLICATIONS

Information on scientific publication by NMFS may be obtained from the Scientific Publications Office, F/NWR1, 1700 Westlake Avenue, North, Room 366, Seattle, Wa. 98109. Telephone: 206-442-4232.

The bulletins listed below show annual data on U.S. commercial landings, fishermen and operating unit data, and the production of processed products, by States. Statistics published in these sectional summary bulletins are published later in Fishery Statistics of the United States (Statistical Digest) together with text and more detailed infomation on landings and operating units.

New England Fisheries
Middle Atlantic Fisheries
Chesapeake Fisheries
( ) SR South Atlantic Fisheries
Gulf Fisheries
Hawaii Fisheries
Great Lakes Fisheries
Mississippi River Fisheries

The bulletins shown below cover freezings and holdings, the production of various processed products, and the U.S. foreign trade in fishery products. The annual data shown in the publications are later published in Fishery Statistics of the United States. To order Fishery Statistics of the United States from the Government Printing Office (GPO) or the National Technical Information Service (NTIS), see the two pages that follow.

The following are issued as monthly and annual bulletins:

( ) Frozen Fishery Products
( ) Fish-Meal and Oil

The following, with one exception, are issued annually:

( ) MF-1 Canned Fishery Products
( ) MF-2 Industrial Fishery Products
( ) MF-3 Production of Fish Fillets and Steaks
( ) MF-4 Processed Fishery Products
( ) MF-5 Fish Sticks, Fish Portions, and Breaded Shrimp (Quarterly and Annually)
( ) MF-6 Imports and Exports of Fishery Products

LIBRARY INFORMATION

Library information is available from NOAA's Georgetown Information Center (OA/D822), Page Building 2, Room 193, 3300 Whitehaven Street, NW., Washington, D.C. 20235. Telephone: 202-634-7346.

PUBLICATIONS AVAILABLE FROM NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPARTMENT OF COMMERCE

Report of the National Marine Fisheries Service for the Calendar Year 1978, PB80-129562.

RECREATIONAL MARINE FISHING

1970 Salt-Water Angling Survey, PB-265416.

Determination of the Number of Commercial and Non-Commercial Recreational Boats in the United States, Their Use, and Selected Characteristics, COM-74-11186.

Participation in Marine Recreational Fishing, Northeastern United States, 1973-74, COM-75-10655.

Participation in Marine Recreational Fishing, Southeastern United States, 1974, PB-273160.

COMMERCIAL FISHERIES

Fisheries of the United States is a preliminary report with historical comparisons on the Nation's fishing, fish processing, and foreign trade in fishery products.

Year	Accession number	Year	Accession number
1966	COM-75-10662	1972	COM-73-50644
1967	COM-75-10663	1973	COM-74-50546
1968	COM-75-10664	1974	COM-75-10862
1969	COM-75-10665	1975	PB-25-3966
1970	COM-71-50081	1976	PB-268662
1971	COM-75-10666	1977	PB-282741
		1978	PB-297083

Fishery Statistics of the United States (Statistical Digest) is a final report on the Nation's commercial fisheries showing more detail than Fisheries of the United States.

Year	Accession number	Year	Accession number
1939	COM-75-11265	1957	COM-75-11060
1940	COM-75-11266	1958	COM-75-11061
1941	COM-75-11267	1959	COM-75-11062
1942	COM-75-11268	1960	COM-75-11063
1943	COM-75-11269	1961	COM-75-11064
1944	COM-75-11270	1962	COM-75-11065
1945	COM-75-11271	1963	COM-75-11066
1946	COM-75-11272	1964	COM-75-11067
1947	COM-75-11273	1965	COM-75-11068
1948	COM-75-11274	1966	PB-246429
1949	COM-75-11275	1967	PB-246430
1950	COM-75-11056	1968	COM-72-50249
1951	COM-75-11053	1969	COM-75-10887
1952	COM-75-11054	1970	COM-75-10643
1953	COM-75-11055	1971	COM-74-51227
1954	COM-75-11057	1972	COM-75-11430
1955	COM-75-11058	1973	PB-262058
1956	COM-75-11059	1974	PB-277796
		1975	PB-300625

Maine Landings, 1946-1976, PB-271296.
Massachusetts Landings, 1943-1976, PB-275866.
Rhode Island Landings, 1954-1977, PB-287627.
New York Landings, 1954-1976, PB-275449.
New Jersey Landings, 1952-1976, PB-275696.
Maryland Landings, 1960-76, PB-300636.
Virginia Landings, 1960-76, PB-300637.
North Carolina Landings, 1955-1976, PB-288928.
South Carolina Landings, 1957-1977, PB-289405.
Georgia Landings, 1956-1977, PB-289814.
Florida Landings, 1950-1976, PB-292068.
Alabama Landings, 1950-1977, PB-80-121262.
Mississippi Landings, 1951-1977, PB-80-121270.
Louisiana Landings, 1957-1977, PB-300583.
Texas Landings, 1949-1977, PB-300603.
Shrimp Landings, 1956-1976, PB-80-124696.
Gulf Coast Shrimp Data, 1958-1976, PB-80-126899.

Processors of Fishery Products in U.S. (excludes Alaska), 1978 (shows firm name, address, and major products), PB-80-219217.

Processors and Wholesalers of Alaska Fishery Products, 1978, PB-299246.

Wholesale Dealers of Fishery Products in U.S. (excludes Alaska), 1978 (shows firm name, address and major products), PB-80-119225.

Directory of Aquaculture in the Southeast, 1976, PB-272-1512.

Revenues, Costs, and Returns from Vessel Operation in Major U.S. Fisheries, PB-265275.

Seafood Plant Sanitation, PB-271161.

--Basic Economic Indicators--

American and Spiny Lobster, 1947-73, COM-74-11587.
Atlantic and Pacific Groundfish, 1932-72, COM-74-11638.
Blue Crab, 1947-72, COM-74-11585.
Clams, 1947-74, COM-75-11089.
Halibut, 1929-72, COM-74-11583.
King and Dungeness Crabs, 1947-72, COM-74-11586.
Menhaden, 1946-72, COM-74-11581.
Oysters, 1947-73, COM-75-10384.
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Shrimp, 1947-72, COM-74-11709.
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Baseline Economic Forecast of the U.S. Fishing Industry to 1985, COM-75-11156.

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A Survey of Fish Purchases by Socio-Economic Characteristics - Annual Report, COM-71-00647.

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National Marine Fisheries Service: Seafood Consumption, 1973-1974, (a magnetic tape), PB-294-725

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(1) This office of the National Marine Fisheries Service coordinates fisheries development work in New England.

SERVICES

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The Consumer Affairs Branch provides educational and information materials and services as follows:

SERVICES

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LOCATION

The Consumer Affairs Branch is in the Washington, D.C., area. For further information please contact the following:

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SERVICES. RCIC's can provide newsletters, lists of published materials and resources data files for local use, literature searches, and general information on coastal and marine resources.

SUBJECT AREAS. The major subject areas include coastal and marine resources, land use and facility siting, urban and regional planning, as well as legal, socioeconomic, and environmental information.

LOCATION. Currently three RCIC's are in operation -- Northeast, Great Lakes and Northwest regions. Six others are planned.

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RCIC Regions

FEDERAL REGISTER NOTICES

Certain Rules and Regulations Published by NMFS in the Federal Register (FR), by Volume, Page Number, and Date, January 1, 1979, to December 31, 1979

The following listing is a summary of fishing policy and regulations that appeared in the Federal Register. Throughout the entire listing of Federal Register notices, the following acronyms will be used:

DAH - Domestic Annual Harvest
DAP - Domestic Annual Processing
EIS - Environmental Impact Statement
FEIS - Final Environmental Impact Statement
FMP - Fishery Management Plan
PMP - Preliminary Fishery Management Plan
OY - Optimum Yield
TALFF - Total Allowable Level of Foreign Fishery
U.S. FCZ - U.S. Fishery Conservation Zone

44 FR 109 (January 2, 1979) - Notice of availability of a supplemental to a FEIS for the Northwest Atlantic Mackerel FMP (see 44 FR 53191, 45 FR 11497).

44 FR 885 (January 3, 1979) - Final regulations for Atlantic groundfish (cod, haddock, and yellowtail flounder) and implementation of FMP for Atlantic groundfish as amended for a fishing year commencing October 1, 1978 (see 43 FR 45872, 53040, 55411, 44 FR 2397, 6732, 16017, 22744, 42977).

44 FR 1113 (January 4, 1979) - Definition of activities that will be presumed to constitute harassment of humpback whales under the Marine Mammal Protection Act of 1972 and the Endangered Species Act of 1973 in waters adjacent to the islands of the State of Hawaii (see 43 FR 25349).

44 FR 1115 (January 4, 1979) - Extension of effective date of FMP for Commercial Tanner Crab off the Coast of Alaska and regulations implementing FMP from 12/31/78 to 10/31/79 (see 43 FR 21170, 21180, 52034, 54964, 57149, 59075, 44 FR 5168, 5885, 15503, 18511, 30688, 61982, 45 FR 785).

44 FR 2397 (January 11, 1979) - Correction to 44 FR 885.

44 FR 2547 (January 11, 1979) - Determination of Alaska waiver request regarding regulations governing the taking of certain Alaska marine mammals (see 41 FR 15166, 15173).

44 FR 4494 (January 22, 1979) - Final rule incorporating a new section of Part 251 in Subpart B of Title 50 to adopt the Fishery for Atlantic Groundfish (cod, haddock, and yellowtail flounder) as a conditional fishery (see 43 FR 33946).

44 FR 4684 (January 23, 1979) - Final regulations on the apportionment of reserve amounts of fish available to foreign fishing in accordance with FMP for Groundfish of the Gulf of Alaska (see 43 FR 46349, 56238, 44 FR 18028, 18539).

44 FR 5168 (January 25, 1979) - Approval of amendments to FMP for tanner crabs off Alaska and proposed regulations (see 43 FR 21170, 57149, 59075, 59292, 44 FR 1115, 5885, 15503, 18511, 30688, 61982, 45 FR 785).

44 FR 5707 (January 29, 1979) - Notice of availability of FEIS for High Seas Salmon Fishery off Alaska (see 44 FR 29080, 33249, 40519).

44 FR 5885 (January 30, 1979) - Closure of Southern District of Cook Inlet Registration Area H to fishing for tanner crabs by U.S. vessels, in accordance with FMP for tanner crab off Alaska (see 43 FR 57149, 44 FR 20696).

44 FR 5916 (January 30, 1979) - Proposed rules to implement 1979 management program establishing a quota for taking Bering Sea stock of bowhead whales by native (Indian, Aleut, or Eskimo) subsistence whalers of 18 landed or 27 struck, whichever occurs first (see 44 FR 9608, 19408, 59911(2), 76536).

44 FR 6732 (February 2, 1979) - Final regulations on quarterly quotas for Atlantic groundfish (cod, haddock, and yellowtail flounder) and notice of fishery closure and adjustment of catch limitation (see 44 FR 885, 2397, 16017, 22744, 24079, 42977).

44 FR 6761 (February 2, 1979) - Proposed amendment to 1979 foreign fishing regulations restricting foreign vessel operations in authorized fishing area in the Atlantic from fishing within 2 nautical miles of reported gear areas (see 42 FR 60694, 43 FR 51053, 59292, 44 FR 26956, 31651, 37022, 46285, 59257).

44 FR 7708 (February 7, 1979) - Interim final regulations on guidelines for development of FMPs (see 43 FR 49023, 44 FR 7994, 20441, 25891).

44 FR 7711 (February 7, 1979) - Repromulgation of emergency regulations implementing FMP for Atlantic herring (see 43 FR 60474, 44 FR 16018, 17186, 18508, 37616, 38529).

44 FR 7777 (February 7, 1979) - Proposed regulations for endangered species exemptions.

44 FR 7994 (February 8, 1979) - Notice of determinations of consistency of 1978 foreign fishing permits for "joint ventures" with FCMA, as amended by Public Law 95-354 (see 43 FR 49023, 44 FR 7708, 20441, 25891).

44 FR 8905 (February 12, 1979) - Proposed regulations to implement Section 10 of the Fishermen's Protective Act of 1967 (see 43 FR 20255, 45869, 44 FR 21832).

44 FR 9421 (February 13, 1979) - Notice of availability of FEIS for proposed Stone Crab Fishery FMP (see 44 FR 18031, 19444, 24849, 53519).

(Continued)

Certain Rules and Regulations Published by NMFS in the Federal Register (FR), by Volume, Page Number, and Date, January 1, 1979, to December 31, 1979 - Continued

44 FR 9608 (February 14, 1979) - Correction to 44 FR 5916.

44 FR 11071 (February 27, 1979) - Notice of increase of fishing time for surf clams; increases allowable fishing time for vessels in the U.S. FCZ to 36 hours per week for the first quarter of 1979 (see 43 FR 6952, 59388, 44 FR 20441, 45227).

44 FR 11072 (February 27, 1979) - Notice of adjustment of surf clam quota for first quarter of 1979; 50,000-bushel reduction (see 43 FR 6952, 50442, 54252, 59388, 73108).

44 FR 11573 (March 1, 1979) - Notice of availability of draft EIS and FMP for Precious Coral Fisheries of the Western Pacific (see 44 FR 13577).

44 FR 13577 (March 12, 1979) - Notice of availability of DEIS for implementation of FMP for Precious Coral Fisheries of the Western Pacific (see 44 FR 11573).

44 FR 15503 (March 14, 1979) - Final regulations and amendments to FMP for tanner crabs off Alaska (see 43 FR 10566, 21170, 29127, 52034, 54964, 57149, 59075, 44 FR 1115, 5168, 5885, 18511, 30688, 61982, 45 FR 785).

44 FR 15726 (March 15, 1979) - Modification of foreign fishing regulations regarding foreign vessels recording and reporting catch data (see 43 FR 59292, 44 FR 18508).

44 FR 16017 (March 16, 1979) - Notice of reopening Atlantic groundfish (cod, haddock, and yellowtail flounder) fisheries and subsequent annual closure; establishment of catch limitation; correction to 44 FR 885 (see 44 FR 6732, 22744, 24079, 42977).

44 FR 16018 (March 16, 1979) - Closure of fishery for Atlantic herring in Gulf of Maine (see 43 FR 60474, 44 FR 7711, 17186, 18508, 37616, 38529).

44 FR 17184 (March 21, 1979) - Miscellaneous corrections to foreign fishing regulations (see 43 FR 59292).

44 FR 17186 (March 21, 1979) - Final regulations and implementation of FMP for Atlantic Herring Fishery of the Northwestern Atlantic (see 43 FR 60474, 44 FR 7711, 16018, 18508, 20442, 37616, 38529).

44 FR 17199 (March 21, 1979) - Supplemental public comment period on amendment to FMP for northern anchovy (see 43 FR 31191, 40868, 44 FR 41806, 42753).

44 FR 17710 (March 23, 1979) - Final ruling designating waters adjacent to Sandy Point Beach, St. Croix, U.S. Virgin Islands, as critical habitat for leatherback sea turtle (see 43 FR 55806).

44 FR 18028 (March 26, 1979) - Final regulations on the apportionment of reserve amounts of fish available to foreign fishing in accordance with FMP for Groundfish of the Gulf of Alaska (see 43 FR 46349, 56238, 44 FR 4684, 18539, 21022, 44 FR 30097).

44 FR 18031 (March 26, 1979) - Approval of FMP for Stone Crab Fishery; emergency regulations implementating portions of the plan to minimize gear conflicts (see 44 FR 9421, 19444, 24849, 53519).

44 FR 18508 (March 28, 1979) - Correction to 44 FR 15726.

44 FR 18508 (March 28, 1979) - Emergency regulations implementing amendment to FMP for Atlantic herring changing statistical procedures (see 43 FR 60474, 44 FR 7711, 16018, 17186, 37616, 38529).

44 FR 18511 (March 28, 1979) - Final regulation closing the portion of the Kodiak District of Registration Area J (westward) to fishing of tanner crab by U.S. vessels (see 43 FR 10566, 21170, 29127, 52034, 54964, 57149, 59075, 44 FR 1115 5168, 5885, 15503, 30688, 61982, 45 FR 785).

44 FR 18539 (March 28, 1979) - Proposed amendments to FMP for Atlantic Groundfish (cod, haddock, and yellowtail flounder) changing OY for final quarter of 1978-79 fishing year (see 43 FR 46349, 56238, 44 FR 4648, 18028, 23571).

44 FR 19408 (April 3, 1979) - Final regulations implementing 1979 quota for taking Bering Sea stock of bowhead whales by native (Indian, Aleut, and Eskimo) subsistence whalers of 18 landed or 27 struck, conferring licenses, and defining prohibited acts (see 44 FR 5916, 9608, 59911(2), 76536).

44 FR 19444 (April 3, 1979) - Proposed regulation implementing other portions of FMP for Stone Crab Fishery; comments solicited (see 44 FR 9421, 18031, 24849, 53519).

44 FR 20440 (April 5, 1979) - Prohibition of take incidental to commercial fishing operations in 1979 of northern stock of common dolphin; 1979 quota exceeded.

44 FR 20441 (April 5, 1979) - Extension of comment period on interim guidelines for development of FMPs (see 43 FR 49023, 44 FR 7708, 7994, 25891).

44 FR 20441 (April 5, 1979) - Amendment to final regulations for surf clams; specifies amount of hours per week (24) surf clams may be harvested for second quarter of 1979 (see 43 FR 6952, 59388, 44 FR 11072, 45227, 73108).

44 FR 20442 (April 5, 1979) - Correction to 44 FR 17186.

(Continued)

FEDERAL REGISTER NOTICES

Certain Rules and Regulations Published by NMFS in the Federal Register (FR), by Volume, Page Number, and Date, January 1, 1979, to December 31, 1979 - Continued

44 FR 20467 (April 5, 1979) - Proposed changes to present regulation on Atlantic surf clam and ocean quahog fisheries; comments solicited (see 43 FR 6952, 44 FR 36393, 45227).

44 FR 20696 (April 6, 1979) - Notice of continued closure of Restriction Area H (Cook Inlet) to fishing of tanner crab by U.S. vessels (see 43 FR 57149, 44 FR 5885).

44 FR 21022 (April 9, 1979) - Correction to 44 FR 18028.

44 FR 21288 (April 10, 1979) - Final regulation that determines the Caribbean monk seal to be an endangered species throughout its range, adding it to the List of Endangered and Threatened Wildlife (see 42 FR 9402).

44 FR 21800 (April 12, 1979) - Prohibition of take incidental to commercial fishing operations in 1979 for northern stock of striped dolphin; 1979 quota exceeded.

44 FR 21832 (April 12, 1979) - Extension of comment period on proposed regulations to implement Section 10 of the Fishermen's Protective Act of 1967 (see 43 FR 20255, 45869, 44 FR 8905, 61546).

44 FR 22744 (April 17, 1979) - Notice of closure of cod and haddock fisheries (Atlantic groundfish fisheries) in the Gulf of Maine for the 61-125 GRT (gross registered tons) vessel class; annual quota reached for that vessel class (see 44 FR 885, 2397, 6732, 16017, 42977).

44 FR 23236 (April 19, 1979) - Revocation of certain regulations concerning the organization and functions of the Bureau of Commercial Fisheries; regulated commercial fisheries, salmon fisheries, offshore shrimp fisheries, and continental shelf fisheries resources.

44 FR 23528 (April 20, 1979) - Final regulations that establish intercouncil boundaries between the New England and Mid-Atlantic Fishery Management Councils, the Mid-Atlantic and South Atlantic Fishery Management Councils, and the South Atlantic and Gulf of Mexico Fishery Management Councils (see 42 FR 36980, 45 FR 3618).

44 FR 23571 (April 20, 1979) - Notice of availability of draft supplement of a final EIS proposing an amendment to the FMP for Atlantic groundfish (cod, haddock, yellowtail flounder) (see 44 FR 18539).

44 FR 24079 (April 24, 1979) - Notice of closure of yellowtail flounder fishery (Atlantic groundfish fishery) west of longitude 69 degrees West to all vessel classes (see 44 FR 6732, 16017).

44 FR 24291 (April 25, 1979) - Emergency and interim final regulations implementing an amendment to the FMP for Commercial and Recreational Salmon Fisheries off the Coasts of Washington, Oregon, and California (see 43 FR 29791, 57969, 44 FR 26747, 31983, 32012, 33684, 42981, 43734).

44 FR 24849 (April 27, 1979) - Repromulgation of emergency regulations implementing a portion of the Stone Crab Fishery FMP (see 44 FR 9421, 18031, 19444, 53519).

44 FR 25891 (May 3, 1979) - Extension of comment period on interim guidelines for development of FMPs (see 44 FR 7709, 7994, 20441).

44 FR 26131 (May 4, 1979) - Amendment to PMP for Trawl Fisheries of Washington, Oregon, and California; proposed regulations governing foreign fishing in the U.S. FCZ seaward of Washington, Oregon, and California for 1979 (see 43 FR 34510, 35924, 44 FR 45398, 54072, 57101).

44 FR 26747 (May 7, 1979) - Correction to 44 FR 24291.

44 FR 26956 (May 8, 1979) - Proposed amendment to 1979 foreign fishing regulations providing additional protection to domestic fixed gear by enlarging the broadcast fixed-gear areas in the Northwest Atlantic Ocean fishery (see 44 FR 6761, 31651, 46285, 59257).

44 FR 27404 (May 10, 1979) - Prohibition of take incidental to commercial fishing operations in 1979 for central and southern stocks of common dolphin; 1979 quota of central stock exceeded, 1979 quota of southern stock will be met by implementation date.

44 FR 28372 (May 15, 1979) - Proposed regulations to amend Atlantic bluefin tuna regulations (see 42 FR 30373, 44 FR 36043, 36054, 62900).

44 FR 29080 (May 18, 1979) - Approval and partial disapproval of FMP for High Seas Salmon Fishery off Alaska; regulations implementing approved portion issued on an emergency basis (see 44 FR 5707, 33249, 40519, 41467, 46286, 51988, 53085).

44 FR 29300 (May 18, 1979) - Proposed rules on establishing uniform procedures for compliance with the Fish and Wildlife Coordination Act, standardizing agency procedures and interagency relationships regarding water-related projects upon wildlife resources (see 44 FR 41899, 47862, 48306).

44 FR 29478 (May 21, 1979) - Final regulations that determine the totoaba (Cynoscion macdonaldi) (white seabass) to be an endangered species throughout its range, adding it to the List of Endangered and Threatened Wildlife.

(Continued)

Certain Rules and Regulations Published by NMFS in the Federal Register (FR), by Volume, Page Number, and Date, January 1, 1979, to December 31, 1979 - Continued

44 FR 30097 (May 24, 1979) - Final regulations making additional amounts of fish available to foreign fishing in accordance with the FMP for Groundfish of the Gulf of Alaska (see 43 FR 56238, 44 FR 18028).

44 FR 30292 (May 24, 1979) - Proposed regulations to implement Title IV of the Outer Continental Shelf Lands Act Amendments of 1978 which establishes a Fishermen's Contingency Fund to pay for property or economic loss suffered by commercial fishermen as a result of obstructions related to oil and gas exploration, development, and production on the Outer Continental Shelf (see 45 FR 6062).

44 FR 30688 (May 29, 1979) - Final regulations closing the Bering Sea District of Registration Area J (Westward) to fishing of tanner crab by U.S. vessels (see 43 FR 21170, 57149, 44 FR 1115, 5168, 5885, 15503, 18511, 61982, 45 FR 785).

44 FR 31651 (June 1, 1979) - Amendment to 1979 foreign fishing regulations providing additional protection to domestic fixed gear by enlarging the broadcast fixed-gear areas in the Northwest Atlantic Ocean fisheries (see 44 FR 6761, 26956, 37022, 59257).

44 FR 31652 (June 1, 1979) - Promulgation of regulations governing foreign fishing in Washington, Oregon, and California trawl fishery (see 43 FR 34510, 35924, 44 FR 26131, 46285).

44 FR 31654 (June 1, 1979) - Notice of closure of northern anchovy fishing for reduction purposes in the southern management subarea (subarea B); 1978-79 season quota reached (see 43 FR 40868).

44 FR 31983 (June 4, 1979) - Extension of emergency regulations implementing an amendment to the FMP for Commercial and Recreational Salmon Fisheries off the Coasts of Washington, Oregon, and California (see 43 FR 29791, 57969, 44 FR 24291, 26747, 32012, 33684, 42981, 43734).

44 FR 32012 (June 4, 1979) - Notice extending comment period on the regulations implementing the amendment to the FMP for Commercial and Recreational Salmon Fisheries off the Coasts of Washington, Oregon, and California (see 44 FR 24291, 26747, 31983, 33684, 42981, 43734).

44 FR 33249 (June 8, 1979) - Publication of FMP for High Seas Salmon Fishing off Alaska (see 44 FR 5707, 29080 40519, 46286, 51988, 53085).

44 FR 33684 (June 12, 1979) - Final regulations for 1979 implementing amendments to the Convention for Protection, Preservation, and Extension of the Sockeye Salmon and Pink Salmon Fisheries of the Fraser River System between the United States and Canada by changing the schedule of fishing by gillnets, purse seines, and reef nets to 1979 calendar dates. These rules do not apply to treaty Indians exercising treaty-secured fishing rights (see 44 FR 24291, 31983, 32012, 42981, 43734).

44 FR 34171 (June 14, 1979) - Notice of public hearing to consider the Mid-Atlantic Fishery Management Council prepared amendment to FMP for Surf Clam and Ocean Quahog Fisheries to extend the current FMP through the end of calendar year 1980 (see 43 FR 6952, 59388, 44 FR 20441, 34694).

44 FR 34607 (June 15, 1979) - Proposed amendment to PMP for Billfish, Oceanic Sharks and Associated Species (wahoo, mahimahi) in the Pacific Ocean (see 43 FR 31374, 41062, 45 FR 14581).

44 FR 34694 (June 15, 1979) - Notice of availability of supplemental FEIS to amend FMP for Surf Clam and Ocean Quahog Fisheries (see 44 FR 34171).

44 FR 34963 (June 18, 1979) - Interim final regulation clarifying the period during which observers may remain aboard tuna purse seine vessels by defining terms in the regulations governing the taking of marine mammals incidental to commercial fishing operations in the eastern tropical Pacific Ocean during 1978-80.

44 FR 36043 (June 20, 1979) - Final regulations amending Atlantic bluefin tuna regulations (see 42 FR 30373, 44 FR 28372, 36054, 36393, 39182, 62900).

44 FR 36054 (June 20, 1979) - Notice of closure of 1979 purse seine season for school-size Atlantic bluefin tuna (see 44 FR 28372, 36043, 36393, 62900).

44 FR 36219 (June 21, 1979) - Proposed modification of foreign fishing permits issued to the Government of the Republic of Korea to receive U.S. harvested Gulf of Alaska groundfish.

44 FR 36393 (June 22, 1979) - Interpretation of regulations for Atlantic bluefin tuna (see 42 FR 30373, 44 FR 28372, 36043, 36054, 62900).

44 FR 36393 (June 22, 1979) - Amendment to final regulations for surf clam and ocean quahog fisheries (see 44 FR 20467, 45227).

44 FR 37022 (June 25, 1979) - Proposed amendment to the foreign fishing regulations and to PMP's for Northwest Atlantic fisheries (see 44 FR 31651, 46285, 59257, 59582).

44 FR 37252 (June 26, 1979) - Approval and partial disapproval of FMP for Atlantic squid fisheries, proposed regulations, and a request for comments (see 43 FR 31186, 59845, 44 FR 50879, 54300, 77174).

44 FR 37616 (June 28, 1979) - Final regulations on quota determination for Atlantic herring (see 44 FR 7711, 16018, 17186, 18508, 38529).

44 FR 37937 (June 29, 1979) - Correction to the regulations governing groundfish of the Gulf of Alaska excluding fish of the genus Coryphaenoides from the "other species" category of fish (see 43 FR 52709, 59321, 44 FR 42738).

(Continued)

Certain Rules and Regulations Published by NMFS in the Federal Register (FR), by Volume, Page Number, and Date, January 1, 1979, to December 31, 1979 - Continued

44 FR 38529 (July 2, 1979) - Approval of amendment to FMP for Atlantic herring implemented as emergency regulations extending current fishing year through June 30, 1980 (see 43 FR 60474, 44 FR 7711, 16018, 17186, 18508, 20442, 37616, 48226, 56700).

44 FR 39182 (July 5, 1979) - Correction to 44 FR 36043.

44 FR 39564 (July 6, 1979) - Proposed regulations requiring foreign vessel operators in the Gulf of Alaska groundfish fishery or the Bering Sea and Aleutian Islands fishery to report discarded incidental catches of salmon and halibut (see 43 FR 17242 (Gulf of Alaska), 58190 (Bering Sea), 44 FR 31652 (Wasington, Oregon, and California trawl fishery), 65590, 66356).

44 FR 40099 (July 9, 1979) - Approval of amendment to FMP for Gulf of Alaska groundfish and proposed regulations to implement the amendment (see 43 FR 17242, 44 FR 42738, 44853, 46904, 50042, 52214, 52284, 54064, 54065, 55589, 64410).

44 FR 40519 (July 11, 1979) - Emergency regulations implementing FMP for High Seas Salmon Fishery off Alaska east of longitude 175 degrees East are continued until final regulations are promulgated (see 44 FR 5707, 29080, 33249, 41467, 46826, 51988).

44 FR 41467 (July 17, 1979) - Correction to emergency regulations implementing FMP for High Seas Salmon Fishery off Alaska (see 44 FR 29080, 40519).

44 FR 41806 (July 18, 1979) - Approval of amendment to FMP for the Northern Anchovy Fishery (see 44 FR 17199, 42753).

44 FR 41899 (July 18, 1979) - Extension of public comment period on proposed rules that would establish uniform procedures for Federal agency compliance with the Fish and Wildlife Coordination Act (see 44 FR 29300, 47862, 48305).

44 FR 42738 (July 20, 1979) - Approval of amendment to FMP for Gulf of Alaska Groundfish establishing OY, domestic annual harvest (DAH), and TALFF for fish of the genus Coryphaenoides and proposed regulations (see 44 FR 37937, 40099, 42738, 44853, 46904, 50042, 52214, 52284, 54064, 55589, 64410).

44 FR 42753 (July 20, 1979) - Notice limiting harvest of northern anchovy in the U.S. FCZ for the 1979-80 fishing season (see 43 FR 31191, 40868, 44 FR 17199, 41806).

44 FR 42977 (July 23, 1979) - Approval and partial disapproval of amendments to FMP for Atlantic groundfish (cod, haddock, yellowtail flounder) (see 44 FR 885, 6732, 16017, 22744, 53174, 55885).

44 FR 42981 (July 23, 1979) - Final regulations implementing amendments to the FMP for Commercial and Recreational Salmon Fisheries off the Coasts of Washington, Oregon, and California (see 44 FR 24291, 31983, 32012, 33684, 43734).

44 FR 43035 (July 23, 1979) - Notice of closure of the unrestricted 1979 fishery for yellowfin tuna in the American Tropical Tuna Commission's Yellowfin Tuna Regulatory Area (see 43 FR 16783, 44 FR 44577).

44 FR 43734 (July 26, 1979) - Emergency amendment to regulations implementing FMP for Commercial and Recreational Salmon Fisheries off the Coasts of Washington, Oregon, and California, closing the U.S. FCZ north of Cape Falcon, Oregon, to commercial salmon fishing. This emergency amendment is in response to a Federal District Court order to allocate additional salmon to Treaty Indian fishing grounds (see 44 FR 24291, 31983, 32012, 33684, 42981).

44 FR 44577 (July 30, 1979) - Proposed regulations to continue 1978 regulations in effect for 1979 for Pacific Tuna Fisheries (see 43 FR 16783, 43035, 44 FR 51608).

44 FR 44853 (July 31, 1979) - Final regulations making additional amounts of fish available to vessels of foreign nations fishing for groundfish in the Gulf of Alaska (see 43 FR 56238, 59322, 44 FR 40099, 42738, 46904, 50042, 52214, 52284, 54064, 55589, 64410).

44 FR 45227 (August 1, 1979) - Approval of amendments to FMP for surf clam and ocean quahogs to regulate fishing during the fourth quarter of 1979 (see 43 FR 6952, 59388, 44 FR 11071, 20441, 20467, 36393, 55590, 56941, 60103, 65372, 68872, 73108, 45 FR 786).

44 FR 45398 (August 2, 1979) - Final rule increasing TALFF for Pacific hake in the U.S. FCZ off the Washington, Oregon, and California coasts (see 44 FR 26131, 54072, 57101).

44 FR 46285 (August 7, 1979) - Amendment to PMPs for Northwest Atlantic fisheries and foreign fishing regulations (see 44 FR 6761, 26956, 31651, 37022, 59257, 59582).

44 FR 46286 (August 7, 1979) - Emergency regulations closing salmon troll fishery to U.S. vessels in accordance with the FMP for High Seas Salmon Fishery off Alaska, the portion of the East Management Area from Cape Spencer to Cape Fairweather; emergency regulations implementing FMP (see 44 FR 29080, 40519, 51988, 53085).

44 FR 46904 (August 9, 1979) - Approval of amendment to FMP for Gulf of Alaska Groundfish and proposed regulations lowering DAH and increasing TALFF (see 44 FR 40099, 42738, 44853, 50042, 52214, 52284, 54064, 55589, 64410).

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Certain Rules and Regulations Published by NMFS in the Federal Register (FR), by Volume, Page Number, and Date, January 1, 1979, to December 31, 1979 - Continued

44 FR 47124 (August 10, 1979) - Advanced notice of proposed rulemaking and intention to prepare Secretarial amendment to extend FMP for Gulf of Alaska Groundfish through October 31, 1980 (see 43 FR 17244, 52709, 64410).

44 FR 47133 (August 10, 1979) - Notice of proposed use of mandatory logbooks in several Atlantic fisheries (e.g., Atlantic herring, surf clam and ocean quahog, Atlantic squid).

44 FR 47862 (August 15, 1979) - Proposed rules for revising and maintaining lists of endangered and threatened wildlife and plants and for determining listed species' critical habitat, implementing requirements of Section 4 of the Endangered Species Act of 1973 (see 44 FR 29300, 41899, 48305).

44 FR 48226 (August 17, 1979) - Extension of emergency regulations implementing amendment to FMP for Atlantic herring (see 44 FR 38529, 56700).

44 FR 48305 (August 17, 1979) - Notice of preparation of environmental assessment on proposed rulemaking; public comments solicited on whether or not proposed Fish and Wildlife Coordination Act rules could have a significant effect on environmental quality (see 44 FR 29300, 41899, 47862).

44 FR 50042 (August 27, 1979) - Final regulations amending FMP for Gulf of Alaska Groundfish (see 44 FR 40099, 42738, 44853, 46904, 52214, 52284, 54064, 55589, 64410).

44 FR 50879 (August 30, 1979) - Proposed amendment to PMP for Squid Fisheries of the Northwestern Atlantic (see 44 FR 37252, 53094, 54300, 77174).

44 FR 51608 (September 4, 1979) - Final regulations extending the 1978 regulations for the 1979 fishing season in the Pacific tuna fisheries (see 43 FR 16783, 43035, 44 FR 44577).

44 FR 51801 (September 5, 1979) - Notice of closure of the 1979 purse seine fishing season for giant-size Atlantic bluefin tuna.

44 FR 51801 (September 5, 1979) - Correction to regulations for Gulf of Alaska groundfish, excluding fish of the genus Sebastolobus from the "other rockfish" category of fish (See 43 FR 17242, 52709, 59321, 44 FR 54064).

44 FR 51988 (September 6, 1979) - Approval of FMP for High Sea Salmon Fishery off the Coast of Alaska East of 175 Degrees Longitude (see 44 FR 29080, 40519, 46286, 53085).

44 FR 52214 (September 7, 1979) - Apportionment of reserve amounts of fish and regulations implementing FMP for Gulf of Alaska Groundfish (see 43 FR 17242, 56283, 44 FR 40099, 42738, 44853, 46904, 50042, 52284, 544064, 54065, 55589, 64410).

44 FR 52284 (September 7, 1979) - Notice of amendment to FMP for Gulf of Alaska Groundfish, implementation of regulations proposed (see 43 FR 17242, 34825, 47222, 44 FR 40099, 42738, 44853, 46904, 50024, 52214, 54064, 55589, 64410).

44 FR 53085 (September 12, 1979) - Notice of closure of the East Management Area to all commercial fishing for salmon; final regulations implementing FMP for High Seas Salmon Fishing off the Coast of Alaska (see 44 FR 29080, 33250, 46286, 51988).

44 FR 53094 (September 12, 1979) - Correction to 44 FR 50879.

44 FR 53174 (September 13, 1979) - Extension of emergency regulations for FMP for Atlantic groundfish (cod, haddock, yellowtail flounder) (see 44 FR 42977).

44 FR 53191 (September 13, 1979) - Approval and partial disapproval of the FMP for the Atlantic Mackerel Fishery of the Northwest Atlantic Ocean (see 44 FR 109, 45 FR 11497).

44 FR 53519 (September 14, 1979) - Final regulations for stone crab fishery (see 44 FR 9421, 18031, 19444, 24849).

44 FR 54064 (September 18, 1979) - Promulgation of final regulations to implement amendment to FMP for Gulf of Alaska Groundfish (see 43 FR 34825, 47222, 46349, 44 FR 40099, 42738, 44853, 46904, 50042, 51801, 52214, 52284, 55589, 64410).

44 FR 54065 (September 18, 1979) - Correction to regulations governing foreign and domestic fishing for groundfish in the Gulf of Alaska (see 43 FR 34825, 47522, 46349, 44 FR 40099, 52214).

44 FR 54072 (September 18, 1979) - Notice of approval of amendment to PMP for Trawl Fisheries of Washington, Oregon, and California; proposed regulations (see 43 FR 34510 44 FR 26131, 45398, 57101).

44 FR 54300 (September 19, 1979) - Amendment to foreign fishing regulations regarding Squid Fisheries of the Northwestern Atlantic (see 44 FR 37252, 50879, 53094).

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Certain Rules and Regulations Published by NMFS in the Federal Register (FR), by Volume, Page Number, and Date, January 1, 1979, to December 31, 1979 - Continued

44 FR 55589 (September 27, 1979) - Promulgation of final regulations implementing amendment to FMP for Groundfish of the Gulf of Alaska, lowering DAH and raising TALFF (see 44 FR 40099, 42738, 44853, 46904, 47124, 50042, 52214, 52284, 54064, 64410).

44 FR 55590 (September 27, 1979) - Approval of amendments to FMP for Atlantic Surf Clam and Ocean Quahog Fishery, modifying record keeping and data reporting for processors (see 44 FR 45227).

44 FR 55885 (September 28, 1979) - Promulgation of final and corrected regulations for Atlantic groundfish (cod, haddock, yellowtail flounder); establishment of catch limits (see 44 FR 42977, 53174).

44 FR 56700 (October 2, 1979) - Final regulations implementing FMP for Atlantic herring (see 44 FR 38529, 48226, 56700).

44 FR 56700 (October 2, 1979) - Notice closing fishery for Atlantic herring in the Gulf of Maine (see 44 FR 38529, 48226, 56700).

44 FR 56941 (October 3, 1979) - Amendment to final regulations for surf clam and ocean quahog fisheries specifying allowable level of fishing for surf clams during the fourth quarter of 1979 (see 44 FR 45227, 60103, 65372, 68872, 73108, 45 FR 786).

44 FR 57100 (October 4, 1979) - Notice of determination that the Republic of Korea is in substantial conformance with United States regulations governing the taking of marine mammals incidental to fishing operations.

44 FR 57101 (October 4, 1979) - Promulgation of final regulations implementing amendment to PMP for Trawl Fisheries of Washington, Oregon, and California, lowering DAH, and increasing TALFF (see 44 FR 26131, 45398, 54072).

44 FR 59257 (October 15, 1979) - Proposed amendments to foreign fishing regulations revising fee schedule for calendar year 1980 (see 43 FR 59292, 44 FR 6761, 26956, 31651, 37022, 46285, 76295).

44 FR 59582 (October 16, 1979) - Proposed rulemaking for mesh size of trawl nets for foreign fishing vessels operating in the U.S. FCZ of the Northwest Atlantic fisheries (see 44 FR 37022, 46285, 45 FR 56).

44 FR 59911 (October 17, 1979) - Amendment to regulations for Bering Sea stock of bowhead whales, allowing the Assistant Administrator for Fisheries to close the whaling season when the overall bowhead quota has been reached (see 44 FR 5916, 9608, 19408, 59911, 76536).

44 FR 59911 (October 17, 1979) - Notice of closure of bowhead whaling season, 1979 quota reached (see 44 FR 5916, 9608, 19408, 59911, 76536).

44 FR 60103 (October 18, 1979) - Notice of increased fishing time for surf clams to 36 hours per week for the fourth quarter of 1979 (see 44 FR 45227, 56941, 65372, 68872, 73108, 45 FR 786).

44 FR 61546 (October 25, 1979) - Final regulations implementing Section 10 of the Fishermen's Protective Act of 1967, establishing the Fishing Vessel and Gear Damage Compensation Fund (see 44 FR 8905, 21832).

44 FR 61970 (October 29, 1979) - Final regulation establishing fees for the agreement year October 1, 1979, through September 30, 1980, to be credited to the Fishermen's Guarantee Fund.

44 FR 61982 (October 29, 1979) - Notice of approval of amendment to FMP for tanner crabs off the Coast of Alaska, regulations proposed (see 44 FR 1115, 5168, 5885, 15503, 18511, 30688, 45 FR 785).

44 FR 62900 (November 1, 1979) - Summary of management measures and official notice of closure of 1979 purse seine fishing season for giant-size Atlantic bluefin tuna (see 44 FR 28372, 36043, 36054, 36393).

44 FR 64410 (November 7, 1979) - Promulgation of final regulations; approval of amendments to FMP for Gulf of Alaska Groundfish, including specification of OY, DAH, DAP (domestic annual processing), reserves, and TALFF for the 1979-80 fishing year (see 44 FR 40099, 42738, 44853, 46904, 47124, 50042, 52214, 52284, 54064, 55589, 64421, 45 FR 6949).

44 FR 64421 (November 7, 1979) - Corrections to FMP for Gulf of Alaska Groundfish (see 44 FR 64410).

44 FR 65372 (November 9, 1979) - Approval and partial disapproval of amendments to FMP for Atlantic Surf Clam and Ocean Quahog Fisheries extending FMP for 2 years by establishing OY and quotas for 1980 and 1981, providing a make-up day for surf clam fishing time lost due to bad weather, establishing a separate management area and measures for the New England fishery, closing two areas to fishing for surf clams and ocean quahogs (see 44 FR 45227, 56941, 60103, 68872, 70503, 73108, 45 FR 786).

44 FR 65590 (November 14, 1979) - Final regulations promulgated to require operators of foreign vessels in the Gulf of Alaska groundfish fishery or Bering Sea and Aleutian Islands fishery to record and report discarded incidental catches of salmon and halibut (see 44 FR 39564, 66356).

(Continued)

Certain Rules and Regulations Published by NMFS in the Federal Register (FR), by Volume, Page Number, and Date, January 1, 1979, to December 31, 1979 - Continued

44 FR 66356 (November 19, 1979) - Preliminary approval of FMP for Bering Sea and Aleutian Islands Groundfish Fishery; proposed regulations to implement FMP (see 42 FR 9298, 43 FR 59324, 45 FR 1028).

44 FR 68872 (November 30, 1979) - Approval and partial disapproval of FMP amendments for Atlantic surf clam and ocean quahog fisheries (see 44 FR 45227, 56941, 60103, 65372, 73108).

44 FR 69312 (December 3, 1979) - Proposed rules to establish a point system which could lead to an automatic suspension of a fishing vessel's Federal permit in the violation of Atlantic groundfish (cod, haddock, yellowtail flounder) regulations (see 45 FR 1112).

44 FR 70480 (December 7, 1979) - Interim final regulations prescribing procedures to protect confidentiality of statistics submitted to the Secretary of Commerce in compliance with requirements of a PMP or FMP authorized by FCMA; comments requested (see 43 FR 1406, 45 FR 3590).

44 FR 70503 (December 7, 1979) - Correction to 44 FR 65372.

44 FR 71440 (December 11, 1979) - Correction to 44 FR 69312.

44 FR 72204 (December 13, 1979) - Proposed new species reporting codes for Atlantic billfish and sharks for inclusion in foreign fishing regulations (see 43 FR 59292, 45 FR 6405).

44 FR 73108 (December 17, 1979) - Notice of closure of fishing area to surf clam fishing off shore of Ocean City, Maryland; surf clams in this area are under 4-1/2 inches (see 43 FR 6952, 59388, 44 FR 11072, 20441, 45227, 56914, 60103, 65372, 45 FR 786).

44 FR 76295 (December 26, 1979) - Foreign fishing fee schedule for 1980; final regulations (see 43 FR 59292, 44 FR 59257).

44 FR 76536 (December 27, 1979) - Final rule amending Schedule of the International Covention for the Regulation of Whaling for Southern Hemisphere 1979/80 pelagic season and 1980 coastal season, and for Northern Hemisphere 1980 season; regulations for the 1980 Alaskan bowhead whale harvest to be published at a later date (see 44 FR 5916, 19408, 59911(2), 45 FR 4366).

44 FR 76539 (December 27, 1979) - Final regulations and implementation of amendments to the following PMPs for foreign fishing during 1980: (1) Hake Fisheries of the Northwestern Atlantic (see 42 FR 10146, 43 FR 51054); (2) Foreign Trawl Fisheries of the Northwestern Atlantic (see 42 FR 9950, 60681); (3) Mackerel Fishery of the Northwestern Atlantic (see 42 FR 9552); (4) Seamount Groundfish Fishery Resources of the Western Pacific (see 42 FR 8568); and (5) Bering Sea Snails (see 42 FR 9334). They change effective dates of the PMPs, some TALFFs; and the vessel day limitation for seamount groundfish PMP is eliminated (see 43 FR 59292, 44 FR 76566).

44 FR 76566 (December 27, 1979) - Notice to invite comments on regulations and amendments to five PMPs (hake, foreign trawl, and mackerel fisheries of the Northwestern Atlantic; seamount groundfish of the Western Pacific; and Bering Sea snails) as implemented (see 44 FR 76539).

44 FR 76829 (December 28, 1979) - Proposed amendments to 50 CFR Part 621 of FCMA which contains regulations governing civil procedures.

44 FR 76837 (December 28, 1979) - Notice of placement of a limited number of transponders and U.S. observers aboard foreign fishing vessels in the Northwest Atlantic for identification and position of vessels and weather data tests.

44 FR 77174 (December 31, 1979) - Final regulations implementing the FMP for Squid Fisheries of the Northwestern Atlantic (see 44 FR 37252, 50879).

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GLOSSARY

ANADROMOUS SPECIES. These are species of fish that mature in the ocean, and then ascend streams to spawn in freshwater. In the FCMA, these species include, but are not limited to, Atlantic and Pacific salmons, steelhead trout, and striped bass. See 42 FR 60682, Nov. 28, 1977.

BOAT, OTHER. Commercial fishing craft not powered by a motor, e.g., rowboat or sailboat, having a capacity of less than 5 net tons. See motorboat.

BREADED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a non-leavened mixture containing cereal products, flavorings, and other ingredients. Breaded products are sold raw or partially cooked.

BATTER-COATED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a batter containing a leavening agent and mixture of cereal products, flavoring, and other ingredients, and partially cooked in hot oil a short time to expand and set the batter.

BREADED SHRIMP. Peeled shrimp coated with breading. The product may be identified as fantail (butterfly) and round, with or without tail fins and last shell segment; also known as portions, sticks, steaks, etc., when prepared from a composite unit of two or more shrimp pieces, whole shrimp, or a combination of both without fins or shells.

BUTTERFLY FILLET. Two skin-on fillets of a fish joined together by the belly skin. See fillets.

CANNED FISHERY PRODUCTS. Fish, shellfish, or other aquatic animals packed in cans, jars, or other containers, which are hermetically sealed and heat-sterilized. Canned fishery products may include milk, vegetables, or other products. Most, but not all, canned fishery products can be stored at room temperature for an indefinite time without spoiling.

COMMERCIAL FISHERMAN. An individual who derives income from catching and selling living resources taken from inland or marine waters.

CONSUMPTION OF EDIBLE FISHERY PRODUCTS. Estimated amount of commercially landed fish, shellfish, and other aquatic animals consumed by the civilian population of the United States. Estimates are on an edible-weight basis and have been adjusted for beginning and ending inventories of edible fishery products. Consumption includes U.S. production of fishery products from both domestically caught and imported fish, shellfish, and other edible aquatic plants and animals; and excludes exports and purchases by the U.S. Armed Forces.

CONTINENTAL SHELF FISHERY RESOURCES. These are living organisms of any sedentary species that are at the harvestable stage either (a) immobile on or under the seabed or (b) unable to move except in constant physical contact with the seabed or subsoil of the continental shelf. The FMCA now lists them as certain abalones, surf clam and ocean quahog, queen conch, Atlantic deep-sea red crab, dungeness crab, stone crab, king crabs, snow (tanner) crabs, American lobster, certain corals, and sponges.

CURED FISHERY PRODUCTS. Products preserved by drying, pickling, salting, and smoking. Do not include canned, frozen, irradiated, or pasteurized products. Dried products are cured by Sun or air-drying; pickled or salted products are those products preserved by applying salt, or by pickling (immersing in brine or in a vinegar or other preservative solution); smoked products are cured with smoke or a combination of smoking and drying or salting.

EUROPEAN ECONOMIC COMMUNITY (EEC). Belgium and Luxembourg, Denmark, Federal Republic of Germany, France, Ireland, Italy, Netherlands, and United Kingdom.

EXVESSEL PRICE. Price received at the dock for fish, shellfish, and other aquatic plants and animals.

FISH BLOCKS. Regular fish blocks are frozen blocks or slabs of fillets or pieces of fillets cut or sliced from fish. Minced fish blocks are frozen blocks or slabs of minced flesh produced by a meat and bone separating machine.

FISH FILLETS. The sides of fish that are either skinned or have the skin on, cut lengthwise from the backbone. Most types of fillets are boneless or virtually boneless; some may be labeled as "boneless fillets."

FISH MEAL. A high-protein animal feed supplement made by cooking, pressing, drying, and grinding fish or shellfish.

FISH OIL. An oil extracted from body (body oil) or liver (liver oil) of fish and marine mammals; mostly a byproduct of fish meal production.

FISH PORTION. A piece of fish flesh that is generally of uniform size with thickness of 3/8 of an inch or more and differs from a fish stick in being wider or of a different shape. A fish portion is generally cut from a fish block.

FISH SOLUBLES. A water-soluble protein byproduct of fish meal production. Fish solubles are generally condensed to 50 percent solids and marketed as "condensed fish solubles."

FISH STEAK. A cross-section slice cut from a large dressed fish. A steaks is usually about 3/4 of an inch thick.

FISH STICK. An elongated piece of breaded fish flesh weighing not less than 3/4 of an ounce and not more than 1-1/2 ounces with the largest dimension at least three times that of the next larger dimension. A fish stick is generally cut from a fish block.

FISHING CRAFT, COMMERCIAL. Boats and vessels engaged in capturing fish, shellfish, and other aquatic plants and animals for sale.

FISHERY CONSERVATION AND MANAGEMENT ACT OF 1976, Public Law 94-265 (FCMA). The FCMA became law on April 13, 1976, and was put in force March 1, 1977. The Act provides a national program for the conservation and management of fisheries to allow for an optimum yield (OY) on a continuing basis and to realize the full potential of the Nation's fishery resources. The FCMA established the U.S. Fishery Conservation Zone (FCZ) and a means to control foreign and certain domestic fisheries through PMPs and FMPs. Within the U.S. FCZ, the United States has exclusive management authority over all fish (meaning finfish, mollusks, crustaceans, and all other forms of marine animal and plant life other than marine mammals, birds, and highly migratory species of tuna). The Act provides further exclusive management authority beyond the U.S. FCZ for all continental shelf fishery resources and all anadromous species throughout the migratory range of each such species, except during the time they are found within any foreign nation's territorial sea or fishery conservation zone (or the equivalent), to the extent that such a sea or zone is recognized by the United States.

FISHERY MANAGEMENT PLAN (FMP). A plan developed by a Regional Fishery Management Council to manage a fishery resource pursuant to the FCMA.

FULL-TIME COMMERCIAL FISHERMAN. An individual who spends 50 percent or more of the working year in commercial fishing activities, including port activity, such as vessel repair and re-rigging.

GROSS REGISTERED TONNAGE (GRT). The gross registered tonnage of a vessel is the internal cubic capacity of all space in and on the vessel that is permanently enclosed, with the exception of certain permissible exemptions. GRT is expressed in tons of 100 cubic feet.

GROUNDFISH. Broadly, fish that are caught on or near the sea floor. The term includes a wide variety of bottomfishes, rockfishes, and flatfishes. However, NMFS sometimes uses the term in a narrower sense. In import statistics shown in "Fisheries of the United States," the term applies to the following species: cod, cusk, haddock, hake, pollock, and Atlantic ocean perch.

INDEXES OF EXVESSEL PRICES. Indexes of exvessel prices in this report are calculated by averaging prices for the various species of fish. The weight assigned to each species represents its importance in the total exvessel value of all species in 1966-70. Detailed data are aggregated to obtain indexes for groups of species. Each index measures price changes from 1967, the reference period, which is designed as 100. An increase of 85 percent from the reference period in the index, for example, is shown as 185.0.

INDUSTRIAL FISHERY PRODUCTS. Items processed from fish, shellfish, or other aquatic plants and animals that are not consumed directly by humans. These items contain products from seaweeds, fish meal, fish oils, fish solubles, pearl essence, shark and other aquatic animal skins, and shells.

INTERNATIONAL CONVENTION FOR THE NORTHWEST ATLANTIC FISHERIES (ICNAF). This convention, which entered into force on July 3, 1950, was for the investigation, protection, and conservation of the fishery resources of the Northwest Atlantic Ocean. In 1975, there were 18 member nations. The United States withdrew from ICNAF on December 31, 1976, because continued adherence to the convention was deemed incompatible with the extension of U.S. fishery management jurisdictions to 200 miles under the Fishery Conservation and Management Act of 1976. See Northwest Atlantic Fisheries Organization (NAFO).

LANDINGS, COMMERCIAL. Quantities of fish, shellfish, and other aquatic plants and animals brought ashore and sold. Landings of fish may be in terms of round (live) weight or dressed weight. Landings of crustaceans are generally on a live-weight basis except for shrimp which may be on a heads-on or heads-off basis. Mollusks are generally landed with the shell on, but for some species only the meats are landed, such as sea scallops. Data for all mollusks are published on meat-weight basis.

MARINE RECREATIONAL CATCH. Quantities of finfish, shellfish, and other living aquatic organisms caught, but not necessarily brought ashore, by recreational marine anglers.

MARINE RECREATIONAL FISHING. Fishing for pleasure, amusement, relaxation, or home consumption. If part or all of the catch is sold, the monetary returns constitute an insignificant part of the person's income.

MARINE RECREATIONAL FISHERMEN. Those people who fish in marine waters primarily for recreational purposes. Their catch is primarily for home consumption, although occasionally a part or all of their catch may be sold and enter commercial channels.

GLOSSARY

MAXIMUM SUSTAINABLE YIELD (MSY). MSY from a fishery is the largest annual catch or yield in terms of weight of fish caught by both commercial and recreational fishermen that can be taken continuously from a stock under existing environmental conditions. A determination of MSY, which should be an estimate based upon the best scientific information available, is a biological measure necessary in the development of optimum yield.

NORTHWEST ATLANTIC FISHERIES ORGANIZATION (NAFO). This convention, which entered into force January 1, 1979, replaces ICNAF. NAFO provides a forum for continued multilateral scientific research and investigation of fishery resources of the Northwest Atlantic. NAFO will manage fishery resources that occur beyond the limits of coastal nations fishery jurisdiction in the northwest Atlantic, and will ensure consistency between NAFO management measures in this area and those adopted by the coastal nations within the limits of their fishery jurisdiction. United States adherence to the NAFO Convention is anticipated in 1980.

MOTORBOAT. A motor-driven commercial fishing craft having a capacity of less than 5 net tons. See "boat, other."

OPTIMUM YIELD (OY). In the FCMA, OY with respect to the yield from a fishery, is the amount of fish that (1) will provide the greatest overall benefit to the United States, with particular reference to food production and recreational opportunities; and (2) is prescribed as such on the basis of maximum sustainable yield from such fishery, as modified by any relevant ecological, economic, or social factors.

PACKAGED FISH. A term used in NMFS publications prior to 1972 to designate fresh or frozen raw fish fillets and steaks.

PART-TIME COMMERCIAL FISHERMAN. An individual who spends less than 50 percent of the working year in commercial fishing activities.

PER CAPITA CONSUMPTION. Consumption of edible fishery products in the United States divided by the total civilian population. In calculating annual per capita consumption, estimates of the civilian resident population of the United States on July 1 of each year are used. These estimates are taken from current population reports, series P-25, published by the U.S. Bureau of the Census.

PER CAPITA USE. The use of all fishery products, both edible and nonedible, in the United States divided by the total population of the United States.

PRELIMINARY FISHERY MANAGEMENT PLAN (PMP). The Secretary of Commerce prepares a PMP whenever a foreign nation with whom the United States has made a Governing International Fishery Agreement (GIFA) submits an application to fish in a fishery, for which there is no fishery management plan (FMP). A PMP is replaced by an FMP as soon as the latter is implemented. A PMP applies only to foreign fishing.

RETAIL PRICE. The price of fish and shellfish sold to the final consumer by food stores and other retail outlets.

ROUND (LIVE) WEIGHT. The weight of fish, shellfish, or other aquatic plants and animals as taken from the water; the complete or full weight as caught. The tables on world catch found in this publication include, in the case of mollusks, the weight of both the shells and the meats, whereas the tables on U.S. landings include only the weight of the meats.

TOTAL ALLOWABLE LEVEL OF FOREIGN FISHING (TALFF). The TALFF, if any, with respect to any fishery subject to the exclusive fishery management authority of the United States, shall be that portion of the optimum yield of such fishery which will not be harvested by vessels of the United States, as determined by provisions of the FCMA.

U.S. FISHERY CONSERVATION ZONE (FCZ). The FCMA defines this zone as contiguous to the territorial sea of the United States and extending seaward 200 nautical miles measured from the baseline from which the territorial sea is measured.

U.S. TERRITORIAL SEA. A zone extending 3 nautical miles from shore for all States except Texas and the Gulf Coast of Florida where the seaward boundary is 3 marine leagues (9 nautical miles).

USE OF FISHERY PRODUCTS. Estimated disappearance of the total supply of fishery products both edible and nonedible on a round-weight basis without considering beginning or ending stocks, exports, military purchases, or shipments to U.S. territories.

VESSEL. A commercial fishing craft having a capacity of 5 net tons or more. These craft are either enrolled or documented by the U.S. Coast Guard and have an official number assigned by that agency.

WHOLESALE FISH AND SHELLFISH PRICES. Prices in this report generally are those received at principal fishery markets by primary wholesalers (processors, importers, and brokers) in customary quantities, free on board (f.o.b.) warehouse.

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Federal Inspection Marks For Fishery Products

FISHERY PRODUCTS ARE VOLUNTARILY INSPECTED. Beef and poultry, as well as many other perishable food items, are federally inspected and graded at various stages of processing to ensure buyers that the product is safe, wholesome, and acceptable. Fishery products have no similar mandatory Federal inspection program; however, the U.S. Department of Commerce (USDC) provides a voluntary inspection program for fishery products. Seafood processors, packers, brokers, and users who are interested in having USDC inspect their products may subscribe voluntarily to the program. Users of the service pay for USDC inspection which evaluates their raw materials, ensures the hygienic preparation of products, and certifies the final quality and condition of the product. The USDC inspector functions as an objective observer in evaluating processing techniques and product quality and condition. Products packed in plants under USDC inspection can carry marks for easy consumer indentification.

FEDERAL INSPECTION MARKS. Federal inspection marks are official marks approved by the Secretary of Commerce and authorized for use on brand labels of fishery products. When displayed on product labels, these marks signify that Federal inspectors of the Department of Commerce inspected, graded, and certified the products as having met all the requirements of inspection regulations, and have been produced in accordance with official U.S. grade standards or approved specifications.

WHAT DO THE INSPECTION MARKS MEAN? The distinctive inspection marks are symbols that signify two distinct but related functions in guiding the consumer to safe, wholesome products produced in a sanitary environment and packed in accordance with uniform quality standards under the supervision of the U.S. Department of Commerce's voluntary inspection service. The functions symbolized by each mark follow:

"U.S. GRADE" MARK. The "U.S. Grade" mark signifies that:

1. The product is clean, safe, and wholesome.
2. The product is of a specified quality, identified by the appropriate U.S. Grade designation, as determined by a Federal inspector in accordance with established requirements in U.S. Grade standards.
3. The product was produced in an acceptable establishment with proper equipment and in an appropriate processing environment as required by food control authorities.
4. The product was processed under supervision by Federal food inspectors and packed by sanitary food handlers in accordance with specific Good Manufacturing Practice requirements.

5. The product is truthfully and accurately labeled as to common or usual name, optional ingredients, and quantity.

"PACKED UNDER FEDERAL INSPECTION" MARK. "Packed Under Federal Inspection" may be displayed as an official mark or as an official statement on the product label. The mark or statement signifies that the properly labeled product is clean, safe, and wholesome and has been produced in an acceptable establishment with appropriate equipment under the supervision of Federal inspectors. The product has not been graded as to a specific quality level; rather, it is an acceptable commercial quality as determined by Federal inspectors in accordance with approved standards or specifications.

For Further Information

Duval Building
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St. Petersburg, FL 33702
(813) 893-3155

3209 Frederic St.
P.O. Drawer 1207
Pascagoula, MI 39567
(601) 762-4591

P.O. Box 1188
Emerson Ave.
Gloucester, MA 01930
(617) 281-3600

Page 2 Building
3300 Whitehaven St., N.W.
Washington, DC 20235
(202) 634-7458

4847 Eastern Ave.
Building No. 7
Bell, CA 90201
(213) 265-0534

Pier 36, Bldg. 7
1555 Alaska Way S.
Seattle, WA 98134
(206) 442-4327

P.O. Box 1668
Juneau, AK 99801
(907) 586-7221

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE (F/SR1)
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Financing For Fishing Vessels

Two National Marine Fisheries Service programs are available for financing the construction and refurbishing of commercial fishing vessels and commercial passenger-carrying fishing vessels.

The Fishing Vessel Obligation Guarantee Program is available for financing up to 87½ percent of the cost of constructing, reconstructing, or reconditioning fishing vessels of 5 net tons or over. Maturities of 15 to 25 years are available.

The long-term financing available under this program allows fishing vessel owners to stretch the debt service of their vessel construction or refurbishing costs over a period of time equal to the economically useful life of their vessel. Down payments are low and interest costs are reasonable.

The Fishing Vessel Capital Construction Fund Program allows fishing vessel owners to defer payment of Federal tax on any portion of income earned from the operation of fishing vessels of at least 2 net tons when that income is reserved for payment toward the cost of vessel construction or reconstruction.

This provides an interest-free loan from the U.S. Government equal to the Federal taxes which otherwise would have been paid on vessel income.

Deferred taxes are eventually repaid to the U.S. Government through a reduction in the depreciation allowed on vessels constructed or reconstructed with tax deferred funds. The "interest-free loan" character of the tax deferral, thus, continues through the depreciable life of the vessel.

This tax-deferral program compensates for vessel owner's general lack of access to the equity capital market by reducing the amount which must be initially borrowed from conventional sources to finance vessel construction or reconstruction.

Several other programs are available. One compensates for fishing gear which has been damaged or destroyed under certain circumstances; another indemnifies against seizure by foreign governments; and one compensates for gear damage which has been caused by outer continential shelf energy activities.

For Further Information

Contact one of the following Financial Services offices of the National Marine Fisheries Service, NOAA, U.S. Department of Commerce:

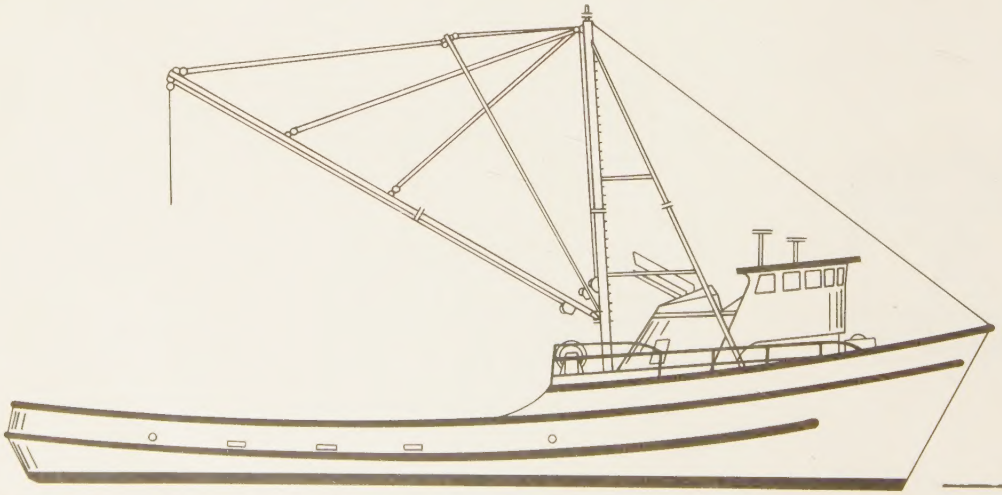
Post Office Bldg., P.O. Box 1109
Gloucester, MA 01930
(617) 281-3600

1700 Westlake Ave., North
Seattle, WA 98109
(206) 442-5532

P.O. Box 3830
Honolulu, HI 96812
(808) 946-2181

9450 Koger Blvd.-Duval Bldg.
St. Petersburg, FL 33702
(813) 893-3148

300 South Ferry St.
Terminal Island, CA 90731
(213) 548-2478



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